



Environmental Consultants

MARCH 1997 SEMI-ANNUAL GROUND WATER QUALITY MONITORING REPORT

500 South Broad Street Meriden, Connecticut

Conducted: March 11, 1997 Through March 12, 1997

RCRA Identification No. CTD047713136

Prepared For:
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Aegis, Inc. Project No. 0307050L

Report Issued: June 16, 1997

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June 18, 1997

Michael O'Brien US Environmental Protection Agency HRW-CAN3 JFK Federal Building Boston, MA 02203

Re: 1997 Semi-Annual Ground Water Quality Monitoring Report

Silver Hill Business Center, 500 South Broad Street, Meriden, Connecticut

RCRA Identification № CTD047713136

Aegis Project Nº 0307050L

Dear Mr. O'Brien:

Enclosed is a copy of the Semi-Annual Ground Water Quality Monitoring Report for the above-referenced facility. The monitoring period discussed in this report covers the first half of the 1997 calendar year. As you know, the Connecticut Department of Environmental Protection (CTDEP) approved a reduction in sampling frequency from quarterly to a semi-annual basis in December 1996. The next scheduled sampling event is planned for September 1997.

This report was prepared in accordance with the requirements of U.S. Environmental Protection Agency (USEPA) Code of Federal Regulation 40 CFR 265; and with the CTDEP Regulation 22a-449(c). A copy of this report has been submitted to Peter Ploch of the Connecticut Department of Environmental Protection.

If you have any questions regarding this report, please contact this office.

Sincerely,

S. Lane Cree Barry Senior Vice President

Enclosure

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MARCH 1997 SEMI-ANNUAL GROUND WATER QUALITY MONITORING REPORT

500 South Broad Street Meriden, Connecticut

Aegis, Inc. Project No. 0307050L

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1.0 INTRODUCTION

1.1 Site Location

The site is currently part of the Silver Hill Business Center located at 500 South Broad Street (west

side) in the City of Meriden, New Haven County, Connecticut (refer to Figure 1, Appendix A). The

property is located within a mixed industrial / commercial / residential area, and is approximately

600 feet south of the intersection of South Broad Street (a.k.a. Connecticut Route 5) and South

Broad Terrace. The corporate boundary dividing the City of Meriden and the Town of Wallingford

is located approximately 400 feet north of the site.

1.2 Purpose

The purpose of this report is to document the procedures used to collect ground water samples

from select on-site monitoring wells; to evaluate water quality changes and trends; and to present

the results of the ground water quality monitoring conducted during the March 1997 sampling

event.

Ground water samples are currently collected on a semi-annual basis from 5 wells installed in the

vicinity of a former on-site waste water treatment system (WTS). The monitoring program is

conducted to evaluate temporal and spatial fluctuations in ground water and ground water quality.

and to further assess contaminant impact to the site. This WTS is regulated by the Resource

Conservation and Recovery Act (RCRA).

1.3 Applicable Regulatory Requirements

The investigations presented in this report were conducted in accordance with the following

requirements:

Pursuant to USEPA §40 CFR 270.73(g) and §22a-449(c)-110 of the Connecticut Hazardous

Waste Management Regulations (CHWMR), owners or operators of any hazardous waste

management facility, as defined in §40 CFR 270.2 and §22a-449(c)-110 of the CHWMR, which

achieved interim status prior to November 8, 1984, were required to submit a Part B application

for a RCRA permit for the facility by November 8, 1988. Interim status facilities for which Part B

applications were not filed by November 8, 1988 lost interim status on November 8, 1992. In

accordance with §40 CFR 265.112(d)(3)(i) and §22a-449(c)-105 of the CHWMR, owners or

operators must submit a Closure Plan for their facility to the Regional Administrator and the Commissioner no later than fifteen days after termination of interim status.

- a. Regulations of Connecticut State Agencies Hazardous Waste Management Regulations, 22a-449(c), Sections 1 through 42, and Section 29 Closure and Post Closure. A RCRA Closure Plan for the WTS was prepared by *Aegis*, *Inc.* in March 1994.
- b. CFR 265.0, Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities; Section 265.197 Closure and Post Closure. A RCRA Closure Plan for the WTS was prepared by Aegis, Inc. in March 1994.
- c. Administrative Order HM-640, State of Connecticut versus South Broad Street; requiring South Broad Associates to abate pollution in compliance with Connecticut's Hazardous Waste Management Regulations.

1.4 Report Authors / Client Contact

This report was authored by Michael D. Zaliznock and Scot Kuhn of *Aegis*, *Inc.* Questions regarding this report may be directed to either individual. The client contact for this project is:

Ms. S. Lane Cree Barry
Devcon Enterprises, Inc.
433 South Main Street - Suite 300
West Hartford, CT 06110

1.5 Date of Study / Scope of Services

The ground water sampling was conducted on March 12, 1997. The scope of work included in this report includes the following:

- a. The elevations of the static ground water levels were gauged in each of the 12 on-site monitoring wells, and the resulting static water elevations were tabulated and mapped.
- b. Ground water samples were collected from 5 of the 12 on-site monitoring wells by *Aegis*, *Inc.*, personnel and submitted to state-certified testing laboratories under chain-of-custody procedures for quantitative analyses.

- c. Field data, including pH, temperature, dissolved oxygen, and specific conductance, were collected from each of the sampled wells; the results were tabulated; and the findings were evaluated for changes and trends.
- d. The laboratory analytical results were tabulated and graphed to evaluate developing ground water quality changes and trends.

1.6 Limitations

This report was prepared by *Aegis*, *Inc.* for the sole use of South Broad Associates, owner of 500 South Broad Street, and its legal counsel in connection with an assessment of the site ground water and hydrogeologic conditions. The work was undertaken to perform a ground water quality investigation in the vicinity of the subject property's RCRA Regulated Unit in accordance with the Connecticut Hazardous Waste Management Regulations, the USEPA 40 CFR Section 265.197 - Closure and Post Closure, and with generally accepted engineering and hydrogeologic practices. No other warranty, expressed or implied, is made. Absolute assurance that any and all possible contamination at the site was identified cannot be provided.

The report conclusions are based, in part, on information provided by the client, their agents or third parties. *Aegis, Inc.* assumes no responsibility as to the accuracy or completeness of this information. Where visual observations are included in the report, they represent conditions at the time of the investigation, and may not be indicative of past or future site conditions.

2.0 BACKGROUND SUMMARY

The site comprises approximately 33.6 acres of land which was developed in 1956 with two non-

residential buildings. Prior to site development, the property was reportedly utilized for agricultural

purposes (orchards). One building (approximately 8,600 square feet) consists of a former meeting

hall presently occupied by the Silver Hill YMCA. The other building (approximately 380,000 square

feet) once housed the former International Silver Company (Insilco) manufacturing facility. This

building is currently occupied by offices of the Silver Hill Business Center.

The former Insilco facility was used for the manufacture of metal plated hollowware (tableware)

from 1956 until 1983, when Insilco and various subsidiaries ceased operations. In 1983, World

Tableware International (WTI) continued a small manufacturing division at the site, and

manufactured nickel-silver hollowware. Waste waters produced by these operations were treated

on-site, to some capacity, from approximately 1965 to 1987. Manufacturing waste waters

produced by WTI were stored on-site for removal by a hauler. WTI ceased manufacturing at the

site in April 1987.

On December 1, 1983, the property was purchased by Devcon Enterprises of Hartford,

Connecticut, and by Central Bank for Savings, Meriden, Connecticut. South Broad Associates was

a corporation organized by the owners to manage the property and lease space in the building.

The water treatment system (WTS), located on the northwest side of the manufacturing building, is

regulated under the Resource Conservation and Recovery Act (RCRA). The WTS was used by the

facility, to some capacity, from approximately 1965 to 1987. A building housing the WTS treatment

equipment (an equalization tank and clarifier) was removed from the site prior to 1984.

Presently, five (5) underground storage tanks (UST's), the concrete floor and foundation of the

former WTS building, and the associated underground utilities remain on-site. Neither the UST's

nor the WTS are currently used. The specific locations of the WTS and the UST's on the subject

property are shown on Figure 2 in Appendix A.

The existing on-site buildings are served by public drinking water and sanitary sewers provided by

the City of Meriden. There are no known public or private drinking water supply wells in close

proximity to the subject property.

500 South Broad Street, Meriden, Connecticut 0307050L - Page 4 The site is generally level, gently sloping from the east to the west towards the WTS. However, the topographic relief west of the WTS drops steeply from an elevation of approximately 250 feet (ft) above mean sea level (MSL) down to 110 ft, at a gradient of approximately 0.23 ft/ft, where it abuts an undeveloped parcel along the westernmost property boundary. Stormwater runoff generally follows the site topography, with a gradual slope downward to the west, away from South Broad Street.

The property is bounded on the south and east (across South Broad Street) by undeveloped land and commercial properties, and on the north and west by residential / undeveloped land.

2.1 Monitoring Well Installations

Thirteen (13) ground water monitoring wells (MW) were installed on the property during various subsurface investigations conducted between 1989 and 1995. Six wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) were installed during investigations conducted by Con-Test, Inc. in 1989. In 1992, Fuss & O'Neill installed five additional wells (MW-7, MW-8, MW-9, MW-10, and MW-11). Of these eleven initial wells, only MW-4 and MW-8 are located proximal to the RCRA Closure Unit. Monitoring well MW-6 was paved over during previous on-site work and has not been successfully located. The remaining upgradient well (MW-1) was damaged in September 1996 and replaced on December 6, 1996.

Because additional wells were needed to better assess the area of the RCRA Closure Unit, two wells (MW-12 and MW-13) were drilled on February 20, 1995. The wells were drilled by Sima Drilling Company of Cheshire, Connecticut, as supervised by a representative of *Aegis*, *Inc.* The 2-inch diameter wells were installed in the overburden using a hollow stem auger drilling rig. Both wells were drilled to a depth of 25 feet below grade, and constructed with 10 foot sections of slotted #304 stainless steel screen, extending approximately 2 feet above the water table. Solid polyvinylchloride (PVC) risers, with threaded joints, were extended to grade as the well casing.

The screened sections and a portion of the PVC casing were filter packed with #1 Morie sand to a depth of 9 feet below grade (3 feet above the well screen). Each well was sealed with a 3 foot layer of bentonite chips. Both wells were installed with a 4-inch diameter steel well protector (rising 2 to 3 feet above grade), anchored with a 2 foot collar of concrete. Each well casing was fitted with a watertight plug and locking cover.

The wells were developed by pumping until the water appeared free of sediment. The waters resulting from the development of the wells, and the waters generated from equipment cleaning, were collected and stored on-site until the analytical results of the ground water samples were received and the disposal options reviewed.

The details associated with the collection and field screening of soil samples collected during the installation of monitor wells MW-12 and MW-13 are presented in the *Aegis*, *Inc.* "RCRA Closure Plan Monitoring Well and Compliance Monitoring Report", dated May 23, 1994.

The location of each of the monitoring wells is illustrated in Figure 2 of Appendix A. Copies of the drilling logs, the drilling permits, and/or the well completion reports for the wells subject to this report (MW-1/MW-1(R), MW-4, MW-8, MW-12, and MW-13) are included in Appendix C.

2.2 Monitoring Well Replacement

Monitoring well MW-1, located in the northeast corner of the property, was originally installed in March 1988, as a 2-inch polyvinyl chloride (PVC) well to a depth of 15 feet. The well was drilled by C.E. Pratt & Son drilling company under the supervision of Con-Test. The well was damaged in September 1996 during construction and paving activities associated with the development of the Pep Boys vehicle service facility.

Monitoring well MW-1 was replaced on December 6, 1996, and renamed MW-1(R). The replacement work was conducted by Sima Drilling Company, Cheshire, Connecticut, and supervised by *Aegis*, *Inc.* The original well was over-drilled using a hollow stem auger to a maximum depth of 18 feet below grade. The well was replaced with 2-inch diameter schedule 40 PVC casing, including the placement of a 10-foot section of #10 slot PVC well screen installed at the bottom of the borehole. The solid PVC well casing was threaded to the top of the well screen and extended to the ground surface.

The annular space between the well screen and the borehole was backfilled with number one sand, to within 6 feet of surface grade (approximately 2 feet above the well screen). Approximately 3 feet of bentonite pellets were placed above the well screen. Native soil was used to backfill the annular space to within 1.5 feet of surface grade. The remaining annular space was filled with a concrete slurry. The well was completed with a flush mount road box, locking expansion cap, and

a bolted protective cover. Copies of the new well boring log and completion report are included in Appendix C.

The elevation and location of monitoring well MW-1(R) were surveyed to the Connecticut Geodetic Survey (CGS) datum on December 24, 1996. At that time, the well was developed and approximately five well volumes of ground water were purged.

2.3 Existing Monitoring Program

Five (5) overburden monitoring wells (MW-1(R), MW-4, MW-8, MW-12 and MW-13) are located in the vicinity of the RCRA Closure Unit (the former waste water treatment plant). These wells are presently sampled on a semi-annual basis as part of an ongoing monitoring program to develop a database, evaluate temporal fluctuations in ground water quality, and further assess contaminant impact to the site. Well MW-1(R), located in the northeast corner of the property, represents the upgradient background monitoring well. The remaining four (4) wells are positioned downgradient of the Closure Unit.

Static water level measurements are being collected from each of the 12 wells on-site to monitor the physical characteristics of the aquifer over time and to assess the potential for migration of the contamination off-site.

3.0 ENVIRONMENTAL SETTING

3.1 Floodplains / Inland Wetlands and Watercourses

According to City of Meriden Flood Insurance Map, Community Panel #090081-0005B, the site is not located within a flood hazard zone. Information obtained through the City of Meriden Inland Wetlands and Watercourses office indicated that the site does not contain inland wetlands or watercourses. However, directly south of the property, a strip of Wilbraham very stony silt loam, which is classified as an Inland Wetlands Soil by the Soil Conservation Service, is present. This area appears to be a drainage swale collecting stormwater runoff from the site.

3.2 Soil Classifications

According to the Soil Conservation Survey for New Haven County, the site is underlain by soils described as Urban Land and Wethersfield loam. Urban Land is characterized as soils located in areas that are covered by buildings, paved roads, and parking lots. Wethersfield loam is a gently sloping, well drained soil usually found on the top of drumlins, hills and ridges, and glacial uplands. Typically, the surface soil is dark-brown loam, the subsoil reddish-brown, and the substratum (up to 60 inches) is a reddish-brown, very fine sandy loam. The topographic features within the area of the RCRA Closure Unit indicate that the soils primarily consist of fill material of unknown composition.

3.3 Surficial and Bedrock Geology

According to the Surficial Geology Map of the Meriden Quadrangle, the site is located upon ground-moraine till deposits, associated with layers of stratified drift. The till is predominately fine-grained and compact, and ranges from pale reddish-brown to dark brownish-red. The Bedrock Geological Map of Connecticut indicates that the surficial materials are underlain by New Haven Arkose that is highly compact and fractured. Arkose is a sandstone-like sedimentary rock, known locally as brownstone.

3.4 Surface Water / Classification / Drainage

According to the Natural Drainage Basins Map of Connecticut, the site is located within the South Central Coast Basin, and the Quinnipiac River regional and sub-regional basins. The Quinnipiac River is located approximately 0.40 miles west of the site, with Meetinghouse Brook located approximately 0.40 miles east of the site.

The DEP has classified the reach of the Quinnipiac River nearest the site as Class "C/B" quality. This classification means that these waters do not presently meet the water quality standards which support its designated uses. The State's goal is to restore the surface water to Class "B" quality and attain Class "B" designated uses (i.e., recreational uses, fish and wildlife habitat, and agricultural and industrial water supply). The site is not located within a public drinking water supply watershed area.

3.5 Ground Water Classification

The ground water beneath the site is classified as "GB/GA" quality. This classification indicates that the ground water may not be suitable for direct human consumption without treatment due to waste discharges, spills, leaks of chemicals, and/or land use impacts. The State's goal is to restore the ground water to "GA" quality. The site is not located within the zone of contribution of a public drinking water supply well or well field.

4.0 GROUND WATER SAMPLING METHODOLOGY

Ground water samples were collected from 5 on-site overburden monitoring wells (MW-1(R), MW-

4, MW-8, MW-12, and MW-13) on March 12, 1997. The purpose of the monitoring is to develop a

ground water quality database, to evaluate temporal and spatial fluctuations in ground water

quality, and to further assess contaminant impact to the site. The well locations are depicted on

Figure 2 (Appendix A).

Using surveyed wells, depth to ground water measurements were collected from each of the 12

existing wells on March 11, 1997 to determine total hydraulic heads and generate ground water

elevation contours. The static ground water levels were measured using a Solinst® electronic water

level indicator. Ground water contours were generated from this data to identify the ground water

seepage direction and planar hydraulic gradient. The ground water depths and elevations are

summarized in Table 1 (Appendix B). Ground water elevations were plotted versus time on

hydrographs provided in Appendix E.

On the day of sample collection (March 12, 1997), approximately three well volumes of water were

purged from wells MW-1(R), MW-4, MW-8, MW-12, and MW-13, using a new, dedicated,

disposable, polyethylene bailer. The purging was conducted to ensure collection of ground water

samples representative of formation water.

After purging the wells, the pH, specific conductivity, and water temperatures were collected using

an $\mathsf{Oakton}^\mathsf{TM}$ water testing meter. The dissolved oxygen concentration was also measured in the

field using a YSI[™] dissolved oxygen meter. The field data was used to determine whether a

sufficient quantity of water was bailed from each well to provide a sample representative of ground

water. The ground water samples were collected after three generally consistent conductivity, pH,

temperature and dissolved oxygen readings were obtained. The field analysis results are

summarized in Table 3 (Appendix B).

Each of the wells sampled generally contained some degree of reddish-brown silt. According to

EPA studies, high turbidity in the ground water may affect the analytical results for the sample.

Furthermore, traditional sampling practices do not differentiate between the chemical species

dissolved in the water and those sorbed to mobile particles that are being transported by ground

water. As a result, the detected concentrations may not have been representative of the truly

dissolved constituents in the water.

water. As a result, the detected concentrations may not have been representative of the truly dissolved constituents in the water.

Consequently, *Aegis*, *Inc.* attempted to minimize the turbidity levels in the ground water by implementing a lower flow purging and sampling technique. This technique was initiated during the December 1995 round of testing, which consists of withdrawing the sampling bailers at a slower rate than used during previous sampling events. Although this procedure increased the time required for sampling each well, the turbidity levels were lower than in the past.

The water samples were collected into appropriate clean containers, labeled, preserved, and sealed. The samples were stored on ice and delivered under chain-of-custody to state-certified laboratories the same day of sample collection. In order to validate the analytical results of volatile parameters, trip blanks were also prepared prior to sampling. The trip blanks consisted of distilled water known to contain no detectable volatile organic compounds.

5.0 HYDRAULIC GRADIENT

Hydraulic head data for this site has been obtained from 12 overburden monitoring wells presently installed on-site. Ground water beneath this site is present in an unconfined aquifer (water table aquifer) at depths of approximately 1 to 19 feet below surface grade, across the site, with a seasonal fluctuation of about 5 feet.

The hydraulic gradient beneath the site was calculated using depth to water measurements collected on March 11, 1997 (Table 1, Appendix B). The measured water table elevation in the overburden wells across the site ranged from approximately 0.97 (MW-5) to 19.09 feet (MW-9) below surface grade. Ground water contours generated this quarter identify a south / southwest direction of ground water flow; and a horizontal ground water gradient of approximately 0.03 feet/foot (Figure 2, Appendix A). This is generally consistent with previously reported ground water flow directions and pressure gradients.

In addition to tabulating ground water elevation data, each of the wells were graphed versus time, to evaluate ground water elevation variances and seasonal fluctuations across the site. The differences in ground water elevations at each given point combined with seasonal fluctuations, can be used to determine the hydraulic characteristics of an aquifer.

Combined with field measurement data, the hydrographs can also be used to evaluate the potential of surface water interference. A graph of the historical ground water hydrograph data is provided in Appendix E.

6.0 LABORATORY ANALYSES AND RESULTS

The ground water samples were submitted to *Aegis*, *Inc.* Environmental Laboratory Services, Rocky Hill, Connecticut to be analyzed for halogenated and aromatic volatile organic hydrocarbons (EPA Method 8021). Connecticut Testing Laboratories, Inc., Meriden, Connecticut conducted the analyses for total petroleum hydrocarbons (TPH) per EPA Method 418.1; total metals (arsenic, antimony, barium, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, tin, and zinc) per EPA Methods 200.7-282.1; hexavalent chromium per EPA Method 218.4; total and amenable cyanides per EPA Methods 335.2 and 335.1, respectively; total organic carbon (TOC) per EPA Method 415.2; fecal coliform bacteria per EPA Method 9222; and pH per EPA Method 150.1.

The laboratory analytical results are summarized in Table 2, Appendix B. Copies of the laboratory reports are included in Appendix D. Graphs of the historical ground water quality data are provided in Appendix F. The results of the analyses found the following:

- The laboratories reported no detectable levels of arsenic, antimony, barium, beryllium, silver, cadmium, chromium (total and hexavalent), copper, lead, mercury, nickel, selenium, thallium, tin, zinc, TPH, amenable cyanide, or fecal coliform bacteria in any of the ground water samples. The trip blank tested free of hydrocarbons.
- Total organic carbon was detected in each of the four wells, in concentrations ranging from 1.4 milligrams per liter (mg/L) in wells MW-1(R) and MW-8 to 2.6 mg/L in MW-4. Total cyanide was detected in MW-13 at 0.09 mg/L. The pH levels measured in all four wells ranged from 6.0 in MW-1(R) to 6.7 in MW-12.
- Trichloroethylene, a volatile organic hydrocarbon, was detected in well MW-8 at 9 micrograms per liter (μg/L).

7.0 SUMMARY AND CONCLUSIONS

The ground water quality associated with the RCRA Regulated Unit located at 500 South Broad Street, Meriden, Connecticut was monitored on a quarterly basis between March 1995 and September 1996, and on a semi-annual basis (per State approval) since September 1996. The findings of the March 1997 sampling event are summarized as follows:

- a. The former facility was used by Insilco for the manufacture of metal plated hollowware (tableware) from 1956 until approximately 1983. In 1983, World Tableware International (WTI) continued a small manufacturing division at the site, and manufactured nickel-silver hollowware. Manufacturing waste waters produced by WTI were stored on-site for removal by a hauler. WTI ceased manufacturing at the site in April 1987.
- b. The facility regulated under RCRA for this site is an inactive water treatment system (WTS), which is located on the northwest side of the manufacturing building. The WTS was used by the manufacturing facility, to some capacity, since approximately 1965. A building housing the WTS treatment equipment (an equalization tank and clarifier) was removed from the site prior to 1984.
- c. Thirteen (13) ground water monitoring wells were installed on the property during various subsurface investigations completed between 1989 and 1995. Six (6) wells (MW-1, MW-2, MW-3, MW-4, MW-5, and MW-6) were installed during investigations conducted by Con-Test, Inc. in 1989. In 1992, Fuss & O'Neill installed five (5) additional wells (MW-7, MW-8, MW-9, MW-10, and MW-11). Two (2) additional wells (MW-12 and MW-13) were installed by *Aegis*, *Inc.* in 1995. Well MW-6 was paved over and unable to be located for testing. Monitoring well MW-1 was damaged during construction activities of a nearby facility (Pep Boys) and was replaced in December 1996. The well was renamed MW-1(R).
- d. Five (5) monitoring wells (MW-1(R), MW-4, MW-8, MW-12, and MW-13) are associated with the subsurface investigation of the RCRA Closure Unit (the inactive waste water treatment plant). These wells are presently sampled on a semi-annual basis as part of an ongoing monitoring program to develop a database, to evaluate temporal fluctuations in ground water quality, and to further assess contaminant impact to the site. Well MW-1(R), located in the northeast corner of the property, represents the upgradient background monitoring well. The remaining four (4) wells are positioned downgradient of the regulated unit.

- e. Ground water samples were collected from the five monitoring wells on March 12, 1997. The turbidity levels in the ground water samples previously collected during earlier sampling events (March 1995 through September 1995 sampling) were observed to be high. EPA studies suggest that high turbidity in the ground water may result in elevated levels of metals due to their sorption onto the sediments in the water. In an attempt to minimize the turbidity levels, a lower flow purging and sampling technique was implemented. This procedure has been used since December 1995 and consists of withdrawing the sampling bailers at a slower rate, which significantly lowers the observed turbidity levels in the samples.
- f. Static water level measurements are collected from each of the 12 wells on-site to monitor the physical characteristics of the aquifer over time; determine the effects of seasonal fluctuations on ground water contamination; and to assess the potential for migration of the contamination off-site. Overburden ground water beneath the site is present in an unconfined aquifer at depths of approximately 1 to 19 feet below surface grade, across the site, with a seasonal fluctuation of about 5 feet.
- g. Ground water contours generated this quarter identify a south / southwest direction of ground water flow; and a horizontal ground water gradient of approximately 0.03 feet/foot (Figure 2, Appendix A). This is generally consistent with previously reported ground water flow directions and hydraulic pressure gradients.
- h. The laboratories reported no detectable levels of arsenic, antimony, barium, beryllium, silver, cadmium, chromium (total and hexavalent), copper, lead, mercury, nickel, selenium, thallium, tin, zinc, TPH, amenable cyanide, or fecal coliform bacteria in any of the ground water samples collected during this semi-annual monitoring event. The trip blank tested free of hydrocarbons.
- i. Monitoring well MW-1(R) has been tested 7 times since its installation. During this time, several heavy metals (barium, chromium, copper, lead, nickel, and zinc), and the chlorinated compound 1,1,1-trichloroethane, have been detected in the well. No metals or halogenated compounds were identified in the sample collected from this well during this sampling event. The pH of the water collected from MW-1(R) was measured at 6.0. Levels of total organic carbon (TOC) remained generally stable between 1.0 and 1.6 mg/L. TOC was measured at 1.4 mg/L in March 1997.

- j. Monitoring well MW-4 has been tested 11 times since its installation in 1989. During this time, several heavy metals (arsenic, barium, beryllium, cadmium, total and hexavalent chromium, copper, lead, nickel, and zinc), and the chlorinated compound 1,1,1-trichloroethane have been detected in the well. No metals or halogenated compounds were identified in the sample collected from well MW-4 during this sampling event. The pH of the water collected from MW-4 was measured at 6.6. Levels of total organic carbon (TOC) have remained generally stable between 2.1 and 4.2 mg/L. TOC was measured at 2.6 mg/L in March 1997.
- k. Monitoring well MW-8 has been tested on 9 separate occasions since its installation in 1992. During this time, several heavy metals (barium, beryllium, chromium, copper, lead, nickel, and zinc) and the chlorinated compounds trichloroethylene, 1,1,1-trichloroethane, and tetrachloroethylene have been detected in the well. With the exception of trichloroethylene (9 μg/L), no metals or halogenated compounds were identified in this well during this sampling event. The pH of the water collected from MW-8 was measured at 6.4. Levels of total organic carbon (TOC) have remained generally stable between 1.0 and 1.7 mg/L. TOC was measured at 1.4 mg/L in March 1997.
- I. Monitoring well MW-12 has been tested 8 times since its installation in February 1995. During this time, several heavy metals (barium, beryllium, total and hexavalent chromium, copper, lead, nickel, and zinc) and the chlorinated compound trichloroethylene have been detected in the well. No metals or halogenated compounds were identified in the sample collected from well MW-12 during this sampling event. The pH of the water collected from MW-12 was measured at 6.7. Levels of total organic carbon (TOC) have generally ranged from below detectable limits to 2.1 mg/L. TOC was measured at 1.8 mg/L in March 1997.
- m. Monitoring well MW-13 has been tested 8 times since its installation in February 1995. During this time, several heavy metals (barium, beryllium, chromium, copper, lead, nickel, and zinc), total cyanide, and the chlorinated compounds trichloroethylene, 1,1,1-trichloroethane, and 1,1-dichloroethane have been detected in the well. With the exception of total cyanide (0.09 mg/L), No metals or halogenated compounds were identified in the sample collected from well MW-13 during this sampling event. The pH of the water collected from MW-13 was measured at 6.2. Levels of total organic carbon (TOC) have remained generally stable between 1.1 and 1.9 mg/L. TOC was measured at 1.6 mg/L in March 1997.

8.0 RECOMMENDATIONS

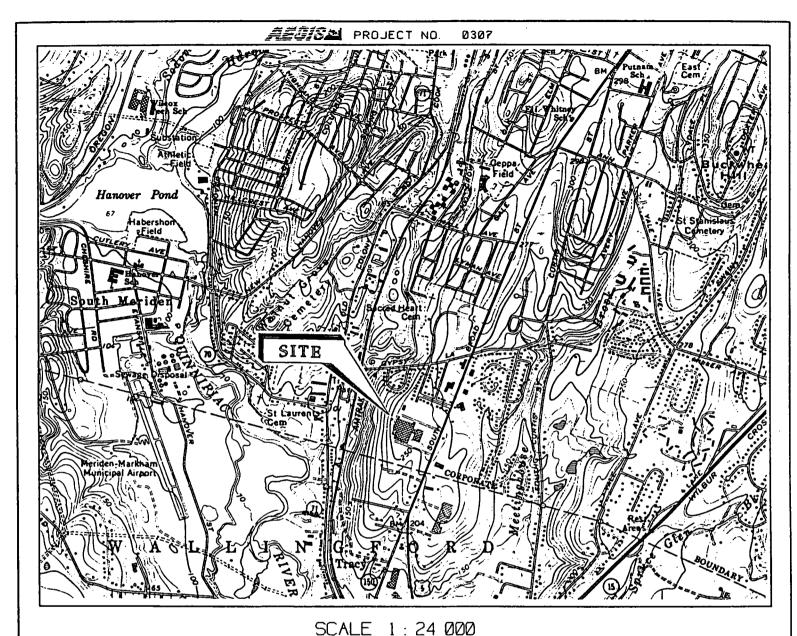
In accordance with the DEP Remediation Standard Regulations, §22a-133k-3(g)(3), ground water quality monitoring should continue on a semi-annual basis. Consultations with DEP personnel should be ongoing in order to adjust the monitoring program according to analytical results of the wells, and with other on-site work.

REFERENCES

- Connecticut Department of Environmental Protection, Water Management Bureau, Water Quality Standards, adopted January, 1992. Effective date May 15,1992.
- Regulations of Connecticut State Agencies, Remediation Standard Regulations, Connecticut General Statutes Sections 22a-133k-1 to 22a-133k-4, adopted December 13, 1995.
- Connecticut Department of Environmental Protection, Water Compliance Unit, Adopted Water Classifications for the South Central Coast Major Basin, April 17, 1985.
- Connecticut Department of Environmental Protection, Water Management Bureau, Leachate and Waste Water Discharge Sources for the South Central Coast Basin, May 1989.
- Bedrock Geologic Map of the Meriden, Connecticut Quadrangle, United States Department of the Interior, United States Geological Survey, 1968.
- Surficial Geology of the Meriden, Connecticut Quadrangle, United States Department of the Interior, United States Geological Survey, 1962.
- United States Department of the Interior Geological Survey, Meriden, Connecticut Quadrangle, 7.5
 Minute Series, Photo revised 1984.
- United States Department of Agriculture Soil Conservation Service, Soil Survey of New Haven County, July 1979.
- Federal Emergency Management Agency, Flood Insurance Map, Community Panel #090081-0005B,
 September 26, 1982.
- Hanshaw, Penelope M., Surficial Geology of Meriden Quadrangle, U.S. Geological Survey, 1962.
- Aegis, Inc. RCRA Closure Plan Document 1 Facility Information and Site Characterization Work Plan for 500 South Broad Street, Meriden, Connecticut, dated March 1994.
- Melvin, Robert, et al, The Stratigraphy and Hydraulic Properties of Tills in Southern New England, U.S. Geological Survey Open File Report 91-481, dated 1995.

APPENDIX A

FIGURE 1 - SITE LOCATION MAP
FIGURE 2 - MARCH 12, 1997 SITE PLAN AND GROUND WATER ISOPLETH MAP



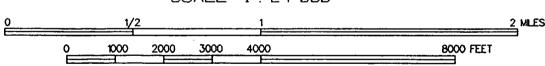
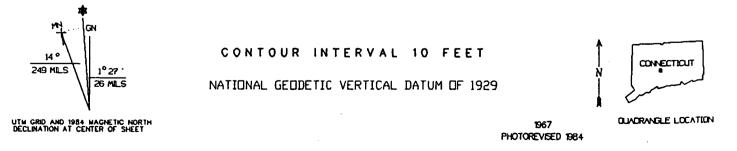


Figure 1 — Site Location Map — 500 South Broad Street, Meriden, Connecticut.

Portion taken from U.S.G.S. Topographic Map for Meriden, Connecticut Quadrangle.

7.5 Minute Series (Topographic)





LEGEND

- MONITORING WELL LOCATION

UST - UNDERGROUND STORAGE TANK

AST - ABOVE-GROUND STORAGE TANK

- CATCH BASIN

- ELEVATION (feet) [Connecticut Geodetic Survey Datum]

240 -- GROUND SURFACE CONTOUR LINE

238.00- - GROUND WATER CONTOUR LINE (MARCH 1997)

- 1) CONTOUR INTERVAL IS 2.0 FEET.
- MW-11 IS INSTALLED IN BEDROCK AND WAS NOT USED TO CONSTRUCT THE OVERBURDEN GROUND WATER CONTOURS.
- 3) MW-1 DAMAGED IN SEPTEMBER 1996 AND REPLACED IN MARCH 1997.
- 4) MW-1 THROUGH MW-6 INSTALLED UNDER CONTEST SUPERVISION.
- 5) MW-7 THROUGH MW-11 INSTALLED UNDER FUSS & O'NEILL SUPERVISION.
- 6) MW-12, MW-13, AND MW-1(R) INSTALLED UNDER AEGIS, INC. SUPERVISION.

PLAN COMPILED FROM INFORMATION ON:

- "U.S.G.S. TOPOGRAPHIC MAP FOR MERIDEN, CT", PHOTOREVISED 1984.
- "TOPOGRAPHIC PLAN OF MERIDEN, CT", MAP NO. 87, DATED APRIL 1965.
- "BOUNDARY MAP OF PROPERTY OF SOUTH BROAD ASSOCIATES, 500 SOUTH BROAD STREET, MERIDEN, CT", REVISED 06-21-85.
- TREATMENT PLANT EXPANSION PLOT PLAN & CONTOURS", DWG NO. 5-E-134, DATED 10-13-69.
- "NEW HOLLOWARE FACTORY MAP OF UNDERGROUND SERVICES MID-SOUTH SECTION" DWG NO. 5-E-1-2, REVISED 01-04-79.

Inc. | Recky Hill. CT 86867-2315 | For 1868 553-1841 | Consultants

BROAD ASSOCIATES
BROAD STREET, WERIDEN, CONNECTICUT
COMPLIANCE MONITORING
ITE PLAN AND GROUND WATER ISOPLETH MAP 0 5 63

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APPENDIX B

TABLE 1 - HISTORICAL GROUND WATER HYDROGRAPH DATA

TABLE 2 - HISTORICAL GROUND WATER QUALITY DATA

TABLE 3 - HISTORICAL GROUND WATER FIELD MEASUREMENT DATA

(Sheet 1 of 3)

Historical Ground Water Hydrograph Data

500 South Broad Street, Meriden, Connecticut

| Well | Surveyed Well | Well Bottom | Well Screen | Monitoring | Measured Depth | Ground Water |
|---------|----------------------|----------------|-------------|------------|----------------|----------------|
| ID | Protector Elev. (ft) | Elevation (ft) | Length (ft) | Event | to Water (ft) | Elevation (ft) |
| MW-1 | 263.44 | 246.68 | 10.00 | 04/11/89 | 11.26 | 252.18 |
| | | | | 01/04/93 | 11.61 | 251.83 |
| | | | | 03/08/95 | 12.21 | 251.23 |
| | | | | 06/28/95 | Dry | Dry · |
| | | | | 09/27/95 | Dry | Dry |
| | | | | 12/18/95 | 15.30 | 248.14 |
| | | | i | 03/13/96 | 10.37 | 253.07 |
| | · | | | 06/12/96 | 12.83 | 250.61 |
| L | 1 | | L | 09/18/96 | Damaged | Damaged |
| MW-1(R) | 263.84 | 246.05 | 10.00 | 03/12/97 | 12.36 | 251.48 |
| MW-2 | 255.82 | 239.15 | 10.00 | 04/11/89 | 6.30 | 249.52 |
| | | | | 01/08/93 | 6.94 | 248.88 |
| | | | | 03/08/95 | NM | NM |
| | | | | 06/28/95 | 8.95 | 246.87 |
| | | | | 09/27/95 | 10.91 | 244.91 |
| | | | | 12/18/95 | 7.68 | 248.14 |
| | | | İ | 03/13/96 | 5.48 | 250.34 |
| Ì | | | | 06/12/96 | 6.93 | 248.89 |
| | | | | 09/18/96 | 8.60 | 247.22 |
| | | | | 03/12/97 | 6.40 | 249.42 |
| MW-3 | 256.77 | 238.45 | 10.00 | 04/11/89 | 7.64 | 249.13 |
| | 1 | | | 01/04/93 | 7.78 | 248.99 |
| | | • | | 03/08/95 | NM | NM |
| | | | İ | 06/28/95 | 8.61 | 248.16 |
| | | | | 09/27/95 | 10.56 | 246.21 |
| | | | | 12/18/95 | 9.31 | 247.46 |
| | | | | 03/13/96 | 6.03 | 250.74 |
| | 1 | | | 06/12/96 | 6.28 | 250.49 |
| | | | | 09/18/96 | 7.58 | 249.19 |
| | | | | 03/12/97 | 6.04 | 250.73 |
| MW-4 | 238.15 | 222.52 | 10.00 | 04/11/89 | 3.60 | 234.55 |
| | | | | 01/04/93 | 5.06 | 233.09 |
| | | | | 03/08/95 | 5.71 | 232.44 |
| | | | | 06/28/95 | 9.45 | 228.70 |
| | | | 1 | 09/27/95 | Dry | Dry |
| | | | | 12/18/95 | 7.88 | 230.27 |
| | | | | 03/13/96 | 4.51 | 233.64 |
| | | | | 06/12/96 | 7.30 | 230.85 |
| | | | | 09/18/96 | 10.39 | 227.76 |
| | | | | 03/12/97 | 5.06 | 233.09 |

Notes: Depth to water measured from the well protector of each well.

NM - not measured.

(Sheet 2 of 3)

Historical Ground Water Hydrograph Data

500 South Broad Street, Meriden, Connecticut

| Well | Ground | Well Bottom | Well Screen | Monitoring | Measured Depth | Ground Water |
|----------|-------------------|----------------|-------------|------------|----------------|-----------------|
| ID | Elevation (ft) | Elevation (ft) | Length (ft) | Event | to Water (ft) | Elevation (ft) |
| MW-5 | 246.82 | 235.05 | 10.00 | 04/11/89 | 2.14 | 244.68 |
| | | | | 01/04/93 | 2.86 | 243.96 |
| | | | | 03/08/95 | NM | NM ⁻ |
| <u> </u> | - | | | 06/28/95 | 6.53 | 240.29 |
| 1 | | | | 09/27/95 | 8.38 | 238.44 |
| 1 | | | | 12/18/95 | 4.51 | 242.31 |
| | | | | 03/13/96 | 2.30 | 244.52 |
| | | | | 06/12/96 | 5.36 | 241.46 |
| 1 | | | | 09/18/96 | 4.65 | 242.17 |
| • | | | | 03/12/97 | 2.59 | 244.23 |
| MW-6* | NM | NM | NM | NM | NM | NM |
| MW-7 | PVC Elevation | 228.68 | 10.00 | 01/04/93 | 18.31 | 235.08 |
| | 253.25 | | | 03/08/95 | NM | NM |
| | | | | 06/28/95 | 21.45 | 231.80 |
| | Protector Damaged | : | | 09/27/95 | 24.04 | 229.21 |
| | , | | | 12/18/95 | 20.08 | 233.17 |
| | | | | 03/13/96 | 17.40 | 235.85 |
| · · | | | | 06/12/96 | 19.12 | 234.13 |
| ł | | | | 09/18/96 | 20.60 | 232.65 |
| | | | | 03/12/97 | 17.60 | 235.65 |
| MW-8 | 256.38 | 229.49 | 10.00 | 01/04/93 | 20.71 | 235.67 |
| | | : | | 03/08/95 | 20.84 | 235.54 |
| | | | | 06/28/95 | 23.38 | 233.00 |
| | | | | 09/27/95 | 26.24 | 230.14 |
| ł | | | | 12/18/95 | 22.01 | 234.37 |
| | | | | 03/13/96 | 20.22 | 236.16 |
| 1 | | | | 06/12/96 | 21.14 | 235.24 |
| | | × | | 09/18/96 | 23.56 | 232.82 |
| | · | | | 03/12/97 | 20.47 | 235.91 |
| MW-9 | 255.31 | 223.38 | 15.00 | 01/04/93 | 22.38 | 232.93 |
| | | | | 03/08/95 | NM | NM |
| | | | | 06/28/95 | 25.01 | 230.30 |
| | | | | 09/27/95 | 26.72 | 228.59 |
| | | | | 12/18/95 | 23.66 | 231.65 |
| | | | | 03/13/96 | 20.86 | 234.45 |
| | | | | 06/12/96 | 22.38 | 232.93 |
| | | | | 09/18/96 | 24.88 | 230.43 |
| | | | | 03/12/97 | 21.80 | 233.51 |

Notes: Depth to water measured from the well protector of each well.

NM - not measured.

^{*-} Monitor Well MW-6 was paved over prior to the January 1993 sampling event and could not be located.

(Sheet 3 of 3)

Historical Ground Water Hydrograph Data

500 South Broad Street, Meriden, Connecticut

| Well | Ground | Well Bottom | Well Screen | Monitoring | Measured Depth | Ground Water |
|--------|----------------|----------------|-------------|-------------------|----------------|----------------|
| ID III | Elevation (ft) | Elevation (ft) | Length (11) | Eyent | to Water (ft) | Elevation (ft) |
| MW-10 | 257.63 | 226.75 | 10.00 | 01/04/93 | 21.95 | 235.68 |
| | | | | 03/08/95 | NM | NM |
| | | | | 06/28/95 | 24.03 | 233.60 |
| | | | | 09/27 <i>1</i> 95 | 26.21 | 231.42 |
| | | | | 12/18/95 | 22.78 | 234.85 |
| | | | | 03/13/96 | 19.86 | 237.77 |
| | | | | 06/12/96 | 20.94 | 236.69 |
| | | | | 09/18/96 | 23.89 | 233.74 |
| | | | | 03/12/97 | 21.02 | 236.61 |
| MW-11 | 255.94 | 212.47 | 20.00 | 01/04/93 | 15.43 | 240.51 |
| | | | | 03/08/95 | NM | NM |
| | | | | 06/28/95 | 16.78 | 239.16 |
| | | | | 09/27/95 | 18.64 | 237.30 |
| | | | • | 12/18/95 | 16.73 | 239.21 |
| | | | | 03/13/96 | 13.76 | 242.18 |
| | | | | 06/12/96 | 14.35 | 241.59 |
| | | | | 09/18/96 | 15.53 | 240.41 |
| | | | | 03/12/97 | 14.33 | 241.61 |
| MW-12 | 254.15 | 227.02 | 10.00 | 03/08/95 | 19.43 | 234.72 |
| | | 1 | ļ | 06/28/95 | 22.46 | 231.69 |
| | | | | 09/27/95 | 25.43 | 228.72 |
| | | | | 12/18/95 | 20.82 | 233.33 |
| | | | | 03/13/96 | 18.31 | 235.84 |
| | | | | 06/12/96 | 20.34 | 233.81 |
| | | | | 09/18/96 | 22.74 | 231.41 |
| | | | | 03/12/97 | 19.15 | 235.00 |
| MW-13 | 256.72 | 229.31 | 10.00 | 03/08/95 | 21.23 | 235.49 |
| | | | | 06/28/95 | 23.82 | 232.90 |
| | | | | 09/27/95 | 26.77 | . 229.95 |
| | | | | 12/18/95 | 22.39 | 234.33 |
| | | | | 03/13/96 | 20.51 | 236.21 |
| | | | ٠ | 06/12/96 | 21.63 | 235.09 |
| | | | | 09/18/96 | 24.04 | 232.68 |
| | | | | 03/12/97 | 21.00 | 235.72 |

Notes: Depth to water measured from the well protector of each well.

NM - not measured.

Aegis, Inc.

c:tworldin\0307DATA.WK4

(Sheet 1 of 2)

Historical Ground Water Quality Data 500 South Broad Street, Meriden, Connecticut

| Well | Sample | Foot | | | | | | | | | | | | | PAI | RAMETE | R | | | | | | | | | | | | |
|---------|----------|------|----------|-------|-------|------------------|-----|---------|-------|-------|-------|-------|-------|------|-------|--------|-------|--------|-------|-------|-------|-------|-------|-------|------|------|------|-------|------|
| ID | Event | Note | рН | T. Cn | A. Cn | TPH | TOC | F. Coli | T, Sb | T. As | T. Ba | T. Be | T. Cd | T.Cr | Cr6 | T. Cu | T. Pb | T. Hg | T. NI | T. Se | T. Ag | T. Ti | T. Sn | T. Zn | TCE | TCA | PCE | 11DCA | CFM |
| MW-1** | 04/11/89 | 1 | NA | NA | NA | , NA | NA. | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/05/93 | 2 | NA | <.01 | NA | _ <.5 | NA. | NA | NA | ND< | z | NA | ND< | ND< | NA | NA | ND< | ND< | 0.05 | ND< | ND< | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/08/95 | 3 | 6.2 | ND< | ND< | : ND< | 1.3 | ND< | <.05 | ND< | 2.2 | <.1 | ND< | 2.70 | NA | 0.21 | 0.240 | ND< | 0.28 | ND< | ND< | <.5 | NA | 0.88 | ND< | 1.0 | ND< | ND< | ND< |
| | 06/29/95 | 3 | • | • | ٠ | • | • | • | • | ٠ | • | • | • | • | • | • | • | • | ٠ | • | • | • | • | • | • | • | • | • | • |
| | 09/27/95 | 3 | • | • | • | ٠ | • | • | • | • | • | ٠ | ٠ | • | • | • | • | • | ٠ | • | • | • | • | • | • | • | ٠ | • | • |
| | 12/19/95 | 3 | 6.6 | ND< | ND< | ND< | 1.2 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| | 03/14/96 | 3 | 6.0 | ND< | ND< | ND< | 1.6 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.10 | ND< | ND< | ND< | ND< | ND< |
| | 06/13/96 | 3 | 6.0 | ND< | ND< | ND< | 1.0 | ND< | ND< | ND< | 0.5 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.23 | ND< | ND< | ND< | ND< | ND< |
| | 09/16/96 | 3 | • | • | • | • | ٠ | ٠ | • | • | • | • | • | • | • | ٠ | ٠ | • | • | • | • | • | • | ٠ | • | • | • | • | · · |
| MW-1(R) | 03/12/97 | 3 | 6.0 | ND< | ND< | ND< | 1.4 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| MW-4 | 04/04/89 | 1 | NA. | NA | NA | NA | NA. | NA | NA | 0.03 | 0.6 | NA | 0.16 | <.05 | NA NA | NA | <.05 | <.0003 | 0.23 | <.005 | <.05 | NA | NA | NA | NA | NA | NA | NA | NA |
| | 04/11/89 | 1 | NA. | <.02 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA. | NA | NA | NA | NA | NA | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 04/30/92 | 3 | NA | NA | NA | NA | NA | NA | NA | <.05 | <.5 | NA | <.01 | 0.09 | NA | NA | 0.180 | <.002 | NA | <.01 | <.01 | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 01/05/93 | 2 | NA. | <.01 | NA | <.5 | NA | NA | NA | ND< | Z | NA | ND< | Z | NA | NA | z | ND< | 0.13 | ND< | ND< | NA | NA | NA | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 03/08/95 | 3 | 6.6 | ND< | ND< | · ND< | 4.9 | ND< | <.05 | ND< | 0.5 | <.1 | ND< | 0.08 | NA | 0.54 | 0.100 | ND< | 0.16 | ND< | ND< | <.5 | NA | 0.36 | ND< | 2.0 | ND< | ND< | ND< |
| | 06/29/95 | 3 | 6.6 | ND< | ND< | ND< | 3.1 | ND< | ND< | ND< | 1.0 | 0.011 | ND< | 0.20 | NA | 0.37 | 0.200 | ND< | 0.15 | ND< | ND< | ND< | ND< | 0.59 | ND< | ND< | ND< | ND< | ND< |
| | 09/27/95 | 3 | • | • | • | • | • | • | • | • | • | • | ٠ | • | • | • | ٠ | ٠ | • | • | • | • | • | ٠ | • | • | • | · | |
| | 12/19/95 | 3 | 6.5 | ND< | ND< | ND< | 3.9 | ND | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| | 03/14/96 | 3 | 6.6 | ND< | ND< | ND< | 4.2 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.11 | ND< | ND< | ND< | ND< | ND< |
| | 06/13/96 | 3 | 6.6 | ND< | ND< | ND | 2.3 | ND | ND< | ND< | ND< | ND< | ND< | 0.05 | ND< | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.18 | ND< | ND< | ND< | ND< | ND< |
| | 09/16/96 | 3 | 6.7 | ND< | ND< | ND< | 2.1 | NĎ | ND< | ND< | 0.6 | ND< | ND< | 0.13 | 0.13 | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.34 | ND< | ND< | ND< | ND< | ND< |
| | 03/12/97 | 3 | 6.6 | ND< | ND< | ND< | 2.6 | ND | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| MW-8 | 01/05/93 | 2 | NA | <.01 | NA | <.5 | NA | NA | NA | ND< | Z | NA | ND< | ND< | NA | NA | ND< | ND< | 0.18 | ND< | ND< | NA | NA | NA | 8.5 | 2.3 | <1.0 | <1.0 | <1.0 |
| | 03/08/95 | 3 | 6.8 | ND< | ND< | ND< | 1.0 | ND< | <.05 | ND< | 0.8 | <.1 | ND< | ND< | NA | 0.10 | 0.024 | ND< | ND< | ND< | ND< | <.5 | NA | 0.46 | 10.0 | 4.0 | 5.0 | ND< | ND< |
| | 06/29/95 | 3 | 6.9 | ND< | ND< | [□] ND< | 1.4 | ND< | ND< | ND< | 1.6 | 0.017 | ND< | 0.05 | NA | 0.26 | 0.021 | ND< | 0.09 | ND< | ND< | ND< | ND< | 0.61 | 7.0 | 2.0 | 3.0 | ND< | ND< |
| | 09/27/95 | 3 | 7.3 | ND< | ND< | ND< | 1.1 | NDX | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.03 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.05 | 12.0 | ND< | 2.0 | ND< | ND< |
| | 12/19/95 | 3 | 6.6 | ND< | ND< | : ND< | 1.1 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 9.0 | ND< | 3.0 | ND< | ND< |
| | 03/14/96 | 3 | 6.5 | ND< | ND< | ^ ND< | 1.7 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.11 | 5.0 | ND< | ND< | ND< | ND< |
| | 06/13/96 | 3 | 6.5 | ND< | ND< | ND< | 1.2 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.19 | 20.0 | 8.0 | 14.0 | ND< | ND< |
| | 09/16/96 | 3 | 6.7 | ND< | ND< | ND< | 1.2 | ND< | ND< | ND< | 0.6 | ND< | ND< | ND< | ND< | 0.01 | ND< | ND< | ND< | · ND< | ND< | ND< | ND< | 0.29 | 22.0 | ND< | 4.0 | ND< | 1.0 |
| | 03/12/97 | 3 | 6.4 | ND< | ND< | ; ND< | 1.4 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 9.0 | ND< | ND< | ND< | ND< |
| | MCL1 | | 6.4-10.0 | 0.2 | NL | NL | NL | NL | 0.006 | 0.05 | 2.0 | 0.004 | 0.005 | 0.1 | NL | 1.3 | 0.015 | 0.002 | 0.1 | 0.05 | 0.05 | 0,002 | NL | NL | 5.0 | 200 | 5.0 | NL | NL |
| | MCL2 | | 6.5-8.5 | 0.2 | NL | NL | NL | NL | NL | 0.05 | 1.0 | NL | 0,010 | 0.05 | NL | 1.0 | 0.015 | 0.002 | NL | 0.01 | 0.05 | NL | NL | NL | NL | NL | NL | NL | NL |
| | MCL3 | | NL | 0.2 | NL | NL | NL | NL | 0.006 | NL | 2.0 | 0.004 | 0.005 | 0.1 | NIL. | NL | NL | 0.002 | 0.1 | 0.05 | NL | 0,002 | NL | NL | 5.0 | 200 | 5.0 | NL | NL |

Notes:

Well sampled by Con-Test
 Well sampled by Fuss & O'Nelli
 Well sampled by Aegis, Inc.
 NA - Not analyzed

ND< - Below laboratory detection limit

NL - No MCI. has been established for this parameter.

<# - Parameter is below atternative laboratory detection of #.

* Well was dry during applicable sampling event and could not be sampled.

** Well damaged in September 1996 and replaced in December 1996.

z - Dissolved Metals detected from 0.05 to 0.18 mg/L
Total Metal and TPH concentrations in militigrams per liter (mg/L)
Volatile Organic Compound concentrations in micrograms per liter (ug/L)
F. Col - Fecal Coliform concentrations per 100 militers (/ 100 mL)
TPH - Total Petroleum Hydrocarbon
TOC - Total Organic Carbon
TCE - Trichioroethylene
TCA - 1,1,1-Trichioroethane

PCE - Tetrachloroethene 11DCE - 1,1- Dichloroethane

CFM - Chloroform 11DCA - 1,1-Dichloroethane

T. Cn - Total Cyanide
A. Cn - Amenable Cyanide

A. Cn - Amenable Cyanide
 MCL1 - Maximum Contaminant Levels of the Connecticut Department of Public Health
 and Addiction Services Public Drinking Water Quality Regulations.

 MCL2 - Maximum Contaminant Levels of the Connecticut Department of Public Health
 Primary Drinking Water Standards.

 MCL3 - Maximum Contaminant Levels of 40 CFR 141.00 Maximum Contaminant Levels

for Organic and Inorganic Contaminants.

(Sheet 2 of 2)

Historical Ground Water Quality Data 500 South Broad Street, Meriden, Connecticut

| Well | Sample | Foot | | | | | | | | | | | | | | PARA | AMETER | ₹ | | | | | | | | | | | |
|-------|----------|------|----------|-------|-------|-----|-----|---------|-------|-------|-------|-------|-------|-------|------|-------|--------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|-------|------|
| ID | Event | Note | рН | T. Cn | A. Cn | TPH | TOC | F. Coli | T. Sb | T. As | T. Ba | T. Be | T. Cd | T, Cr | Cr6 | T. Cu | T. Pb | T. Hg | T. Ni | T. Se | T. Ag | 7. 11 | T. Sn | T. Zn | TCE | TCA | PCE | 11DCA | CFM |
| MW-12 | 03/08/95 | 3 | 6.8 | ND< | ND< | ND< | 1.9 | ND< | <.05 | ND< | 8.0 | <.1 | ND< | 0.06 | NA | 0.09 | 0.014 | ND< | ND< | ND< | ND< | <.5 | NA | 0.34 | 1.0 | ND< | ND< | ND< | ND< |
| | 06/29/95 | 3 | 6.8 | ND< | ND< | ŅD< | 2.0 | ND< | _ND< | ND< | 1.5 | 0.007 | ND< | 0.20 | NA . | 0.31 | 0.014 | ND< | 0.08 | ND< | ND< | ND< | ND< | 0.65 | ND< | ND< | ND< | ND< | ND< |
| | 09/27/95 | 3 | 6.8 | ND< | ND< | ND< | 2.1 | ND< | ND< | ND< | 2.7 | 0.012 | ND< | 0.44 | 0.12 | 0.59 | 0.072 | ND< | 0.16 | ND< | ND< | ND< | ND< | 1.13 | ND< | ND< | ND< | ND< | ND< |
| | 12/19/95 | 3 | 6.7 | ND< | ND< | ND< | 2.0 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| | 03/14/96 | 3 | 6.7 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.13 | ND< | ND< | ND< | ND< | ND< |
| | 06/13/96 | 3 | 6.8 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.17 | ND< | ND< | ND< | 4.0 | ND< |
| | 09/16/96 | 3 | 6.8 | ND< | ND< | ND< | ND< | ND | ND< | ND< | 1.0 | ND< | ND< | 0.05 | 0.05 | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.53 | ND< | ND< | ND< | ND< | ND< |
| | 03/12/97 | 3 | 6.7 | ND< | ND< | ND< | 1.8 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| MW-13 | 03/08/95 | 3 | 6.4 | 0.06 | ND< | ND< | 1.4 | ND< | <.05 | ND< | 0.8 | <.1 | ND< | 0.05 | NA | 0.10 | 0.032 | ND< | ND< | ND< | ND< | <.5 | NA | 0.40 | 2.0 | ND< | ND< | ND< | ND< |
| | 06/29/95 | 3 | 6.5 | ND< | ND< | ND< | 1.4 | ND< | ND< | ND< | 0.5 | ND< | ND< | ND< | NA | 0.08 | 0.015 | ND< | ND< | ND< | ND< | ND< | ND< | 0.29 | 2.0 | 1.0 | ND< | ND< | ND< |
| | 09/27/95 | 3 | 6.6 | 0.17 | ND< | ND< | 1.3 | ND< | ND< | ND< | ND< | 0.010 | ND< | 0.09 | ND< | 0.08 | 0.024 | ND< | 0.08 | ND< | ND< | ND< | ND< | 0.13 | 5.0 | ND< | ND< | ND< | ND< |
| | 12/19/95 | 3 | 6.3 | 0.06 | ND< | ND< | 1.1 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| | 03/14/96 | 3 | 6.2 | ND< | NDY | ND< | 1.9 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.12 | 1.0 | ND< | ND< | ND< | ND< |
| | 06/13/96 | 3 | 6.1 | 0.05 | ND< | ND< | 1.5 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.22 | 14.0 | 7.0 | ND< | 4.0 | ND< |
| | 09/16/96 | 3 | 6.4 | 0.23 | 0.05 | ND< | 1.5 | ND< | ND< | ND< | 0.6 | ND< | ND< | ND< | ND< | 0.01 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | 0.43 | 3.0 | ND< | ND< | ND< | ND< |
| | 03/12/97 | 3 | 6.2 | 0.09 | ND< | ND< | 1.6 | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< | ND< |
| | MCL1 | | 6.4-10.0 | 0.2 | NL | NL | NL | NL | 0.006 | 0.05 | 2.0 | 0.004 | 0.005 | 0.1 | ZL | 1.3 | 0.015 | 0.002 | 0.1 | 0.05 | 0.05 | 0.002 | NL | NL | 5.0 | 200 | 5.0 | NL | NL |
| | MCL2 | | 6.5-8.5 | 0.2 | NL. | NL | NL | NL | NL | 0.05 | 1.0 | NL | 0.010 | 0.05 | NL | 1.0 | 0.015 | 0.002 | NL . | 0.01 | 0.05 | NL | NL | NL | NL | NL | NL | NL | NL : |
| | MCL3 | | NL | 0.2 | NL | NL. | NL | NL | 0.006 | NL | 2.0 | 0.004 | 0.005 | 0.1 | NL | NL | NL | 0.002 | 0.1 | 0.05 | NL | 0.002 | NL | NL | 5.0 | 200 | 5.0 | NL | NL |

Notes:

1 Well sampled by Con-Test
2 Well sampled by Fuss & O'Neill
3 Well sampled by Aegis, Inc.
NA - Not analyzed
ND< - Not Detected

NL - No MCL has been established for this parameter.

<# - Parameter is below alternative laboratory detection of #.

z - Dissolved Metals detected from 0.05 to 0.18 mg/L.

Total Metal and TPH concentrations in milligrams per liter (mg/L)

Volatile Organic Compound concentrations in micrograms per liter (ug/L)
F. Coli - Fecal Coliform concentrations per 100 milliters (/ 100 mL)
TPH - Total Petroleum Hydrocarbon
TCC - Total Organic Carbon
TCE - Trichloroethylene
TCA - 1,1,1-Trichloroethane

PCE - Tetrachloroethene
11DCE - 1,1- Dichloroethane
CFM - Chloroform

11DCA - 1,1-Dichloroethane

T. Cn - Total Cyanide

A. Cn - Amenable Cyanide

MCL1 - Maximum Contaminant Levels of the Connecticut Department of Public Health and Addiction Services Public Drinking Water Quality Regulations.

MCL2 - Maximum Contaminant Levels of the Connecticut Department of Public Health

Primary Drinking Water Standards.

MCL3 - Maximum Contaminant Levels of 40 CFR 141.00 Maximum Contaminant Levels for Organic and Inorganic Contaminants.

(Sheet 1 of 2)

Historical Ground Water Field Measurement Data

500 South Broad Street, Meriden, Connecticut

| Well ID | Monitoring Event | Ground Water Temperature | Specific Conductance | рН | Dissolved Oxygen |
|------------|---------------------|--------------------------|----------------------|-----|---------------------|
| | | (Celsius) | (MicroSeimens/cm) | | (ppm) |
| MW-1 | 03/08/95 | 10.1 | 201 | 5.5 | |
| • | 06/29/95 | * | ÷ | ŵ | * |
| | 09/27/95 | • | * | • | • |
| | 12/19/95 | 8.8 | 308 | 6.4 | |
| | 03/14/96 | 7.6 | 181 | 5.8 | 9.9 |
| | 06/13/96 | 11.1 | 301 | 5.8 | 7.2 |
| | 09/19/96 | ** | ** | ** | ŵŵ |
| MW-1(R) | 03/13/97 | 8.9 | 488 | 6.1 | 6.3 |
| MW-4 | 03/08/95 | 6.5 | 870 | 6.0 | *** |
| | 06/29/95 | 12.9 | 578 | 6.2 | 13.3 |
| | 09/27/95 | ú | ÷ | ÷ | * |
| | 12/19/95 | 7.5 | 693 | 6.6 | |
| | 03/14/96 | 6.2 | 687 | 6.5 | 10.8 |
| | 06/13/96 | 11.5 | 452 | 6.4 | 6.6 |
| | 09/19/96 | 14.0 | 505 | 6.4 | 5.3 |
| | 03/13/97 | 5.6 | 400 | 6.7 | 8.1 |
| MW-8 | 03/08/95 | 11.8 | 674 | 6.1 | |
| | 06/29/95 | 12.9 | 702 | 6.5 | 10.8 |
| | 09/27/95 | 14.9 | 597 | 7.1 | 10.3 |
| | 12/19/95 | 12.3 | 498 | 6.5 | |
| | 03/14/96 | 11.8 | 486 | 6.2 | 10.4 |
| | 06/13/96 | 12.3 | 548 | 5.9 | 6.0 |
| | 09/19/96 | 13.3 | 737 | 6.4 | 5.0 |
| | 03/13/97 | 11.3 | 550 | 6.0 | 7.8 |

Notes:

Data represents average of three sets of measurements collected.

ppm - parts per million

cm - centimeter

^{* -} Data not collected due to dry conditions.

^{** -} Monitor well MW-1 was damaged in September 1996.

^{&#}x27;-- Dissolved oxygen was not measured in March 1995 and December 1995.

(Sheet 2 of 2)

Historical Ground Water Field Measurement Data

500 South Broad Street, Meriden, Connecticut

| Well ID | Monitoring Event | Ground Water Temperature (Celsius) | Specific Conductance (MicroSeimens/cm) | рН | Dissolved Oxygen (ppm) |
|------------|---------------------|--|--|-----|------------------------------|
| MW-12 | 03/08/95 | 11.6 | 452 | 6.5 | |
| | 06/29/95 | 12.9 | 436 | 6.4 | 13.1 |
| | 09/27/95 | 14.0 | 462 | 6.7 | 4.4 |
| | 12/19/95 | 11.1 | 340 | 6.7 | |
| | 03/14/96 | 11.1 | 402 | 6.6 | 7.8 |
| | 06/13/96 | 11.6 | 324 | 6.6 | 6.4 |
| | 09/19/96 | 12.7 | 443 | 6.2 | 5.4 |
| | 03/13/97 | 10.3 | 307 | 6.6 | 6.4 |
| MW-13 | 03/08/95 | 12.6 | 651 | 6.6 | |
| | 06/29/95 | 13.0 | 504 | 6.1 | 9.3 |
| | 09/27/95 | 14.8 | 509 | 6.5 | 9.8 |
| | 12/19/95 | 11.4 | 368 | 6.1 | - |
| | 03/14/96 | 12.3 | 442 | 6.2 | 5.2 |
| | 06/13/96 | 12.2 | 392 | 5.9 | 4.3 |
| | 09/19/96 | 13.5 | 472 | 5.9 | 4.0 |
| | 03/13/97 | 11.7 | 387 | 6.0 | 6.6 |

ppm - parts per million

cm - centimeter

Notes: * - Data not collected due to dry conditions.

^{** -} Monitor well MW-1 was damaged in September 1996.

'— Dissolved oxygen was not measured in March 1995 and December 1995.

Data represents average of three sets of measurements collected.

APPENDIX C

MONITOR WELL BORING LOGS AND WELL COMPLETION REPORTS

|). | Shoop Pastore Rd. Southwick, Ma. (413) 509-5571 S. Warner | PROJECT NAME | on-Test | HOLE N | SHEET 1 OF 6 HOLE NO. 1 | | | | | |
|--------|--|------------------------------------|------------|----------------|-------------------------|--|--|--|--|--|
| .ग्टर | A. Desrosiers | Deveon Localion 500 So. Broa | ad St. Mei | iden Ct | NEXT Dig Safe No. | | | | | |
| AT | PT. APTER HOURS | | PVC s/s | CA COAC BARACL | | 29/88,47,3/,30/ | | | | |
| , | A STRATUM DESCRIP | BLOWS, | D | A STRATUA | M DESCRIPTION | BLOWS PER B | | | | |
| | | | | | | | | | | |
| | 5 Sandy-Loam | 3-5-5 | | | | | | | | |
| | 10 Till | 11-24-20 | | | | A STATE OF THE STA | | | | |
| | 12 Wet | | | | | | | | | |
| | 15 Till/Ledge 16 Refusal | 50=4" | | | | | | | | |
| | | | | | | | | | | |
| | 10° Screen #10 | Slot | | | | | | | | |
| | | , | | | | | | | | |
| | <u>// </u> | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | |] . | | | | | | |

| VAITE AND ARE ENDINEERING AS—BUILT WELL DIAGRAM & GEDLEGIC, DESCRIPTION WELL NO. 1 PROJECT NO. 7836 CLIENT. DEVOON PRI, NAND PROPATIONAL SILVER LICATION DO SOUTH BROAD SIRREY LICATION TYPE , WC CASING TYPE , WC CASING TYPE , WC CASING TO SEPTION PROTECTIVE STEEL, CURB—STOP CEMENT COMPINE PROTECTIVE STEEL, CURB—STOP COMPINE TO SAMPLE NO. AND DESCRIPTION TO SECTION TO SECTION 10' NEW JERSEY SAND 10' SECTION 10' | con-test | P.O. BOX 591 |
|--|---|-----------------------------|
| WELL NO. 1 PROJECT NO. 7836 CLIENT DEVOON PRJ. NAMED INTERNATIONAL SILVER LICATION ON SOUTH BROAD STREET LICATION OF SOUTH BROAD STREET LICATION OF SOUTH BROAD STREET LICATION OF SOUTH BROAD STREET LICATION OF SOUTH HEASURED FROM WATER CASING LESING GETLIGIST, AAA DEPOSERS GETLIGIST, AAA DEPOSERS GETLIGIST, AAA DEPOSERS GETLIGIST, AAA DEPOSERS BURING SIZE CASING SIZE CASING SIZE CASING TYPE PRO CASING TYPE PRO CASING TYPE PRO CASING THE SCHEDULE 40 DATE APPROVED BY DATE PROTECTIVE STEEL CURB-STOP SAMPLE NO. AND DESCRIPTION CRADE PROTECTIVE STEEL CURB-STOP SAMPLE NO. AND DESCRIPTION CRADE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION NEW JERSEY SAND | | HASSACHUSETTS 01028 |
| WELL NO. 1 PROJECT NO. 7836 CLIENT DEVOON PRJ. NAMED INTERNATIONAL SILVER LICATION ON SOUTH BROAD STREET LICATION OF SOUTH BROAD STREET LICATION OF SOUTH BROAD STREET LICATION OF SOUTH BROAD STREET LICATION OF SOUTH HEASURED FROM WATER CASING LESING GETLIGIST, AAA DEPOSERS GETLIGIST, AAA DEPOSERS GETLIGIST, AAA DEPOSERS GETLIGIST, AAA DEPOSERS BURING SIZE CASING SIZE CASING SIZE CASING TYPE PRO CASING TYPE PRO CASING TYPE PRO CASING THE SCHEDULE 40 DATE APPROVED BY DATE PROTECTIVE STEEL CURB-STOP SAMPLE NO. AND DESCRIPTION CRADE PROTECTIVE STEEL CURB-STOP SAMPLE NO. AND DESCRIPTION CRADE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION NEW JERSEY SAND | AS-BUILT WELL DIAGRAM & GEOLDG | IC. DESCRIPTION |
| CLIENT DEVON CROUND VATER OBSERVATION RETURNATIONAL SILVER LICATION 500 SUIT BROAD STREET MERIDAN CONN GETLICIST, JAM 2010SERS GETLICIST, JA | WELL NO. 1 PROJECT | |
| PRJ. NAME MERICAN, CONN. MEASURED FROM MELL CASING | CL TENTE DEVCON | esta lende |
| DATE OF DRILLY 20/80 BORING SIZE 1 6 DRAYN BY ANNE Describer CASING TYPE 1 P/C CASING TO 1 SCHEDULE 40 DATE OF FILTER PACK NEW JERSEY SAND PROTECTIVE STEEL, CURB-STOP CEMENT SAMPLE NG. AND DESCRIPTION PROTECTIVE STEEL, CURB-STOP CEMENT SAMPLE NG. AND DESCRIPTION CEMENT CEMENT PROTECTIVE STEEL, CURB-STOP CEMENT CEMENT CEMENT SAMPLE NG. AND DESCRIPTION TRASE-02 9.5-10.5' MEDIUM SAND AND TILL TRASE-02 9.5-10.5' MEDIUM SAND AND TILL TRASE-03 14.5-15.5' TILL AND LEDGE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | LUCATION 600 SOUTH BROAD STREET 11.28 HERIDAN, CONN. HEADIRET | FT DN 4/4/88 DATE |
| CASING IT SCHEDULE 40 CASING IN SCHEDULE 40 PROTECTIVE STEEL CURB—STOP CEMENT CEMENT CRADE BENTONITE PLUG 14-6* TAS6—02 9.5—10.5* LOAM AND SANDY LOAM TAS6—03 14.5—15.5* TILL AND LEDGE TOTAL WELL DEPTH = 15* NEW JERSEY SAND 10' SECTION | GENERATETA ALAN DOBROSIERS | TIDN 106.76 = GROUND |
| DEPTH O PROTECTIVE STEEL, CURB-STOP CEMENT CRADE BENTONITE PLUG 14-6° REDIUM SAND AND DESCRIPTION T836-01 4,5-5,5' LOAM AND SANDY LOAM T836-02 9,5-10.5' MEDIUM SAND AND TILL T636-03 14,5-15.5' TILL AND LEDGE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | CASING TYPE 1 PVC | Y ANNE DeSELLIER 4/10/89 |
| STEEL CURB-STOP CEMENT CEMENT GRADE BENTONITE PLUG 14-6° T836-01 4.5-5.5' LOAM AND SANDY LOAM T836-02 9.5-10.5' MEDIUM SANO AND TILL COUPLING 7836-03 14.5-15.5' TILL AND LEDGE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | | D BY |
| STEEL CURB-STOP CEMENT CEMENT GRADE BENTONITE PLUG 14-6° T836-01 4.5-5.5' LOAM AND SANDY LOAM T836-02 9.5-10.5' MEDIUM SAND AND TILL COUPLING 7836-03 14.5-15.5' TILL AND LEDGE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | PROTECTIVE | |
| O GRADE BENTONITE PLUG 14-6° T836-01 4,5-5,5' LOAM AND SANDY LOAM 7836-02 9,5-10.5' MEDIUM SAND AND TILL COUPLING 7836-03 14.5-15.5' TILL AND LEDGE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | STEEL, CURB-STOP | SAMPLE NO. AND DESCRIPTION |
| BENTONITE PLUG 14-6 14-6 7836-01 4,5-5,5' LOAM AND SANDY LOAM 7836-02 9,5-10,5' MEDIUM SANO AND TILL 7836-03 14.5-15.5' TILL AND LEDGE TOTAL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | | |
| TOAM AND SANDY LOAM 7836-02 9.5-10.5' MEDIUM SAND AND TILL 7836-03 14.5-15.5' TILL AND LEDGE 10' NEW JERSEY SAND 10' SECTION | Val (188 | |
| 7836-02 9.5-10.5' MEDIUM SAND AND TILL 7836-03 14.5-15.5' TILL AND LEDGE 707AL WELL DEPTH = 15' NEW JERSEY SAND 10' SECTION | 14-5 | |
| COUPLING 7836-03 14.5-15.5' TILL AND LEDGE 2° SCHEDULE 40 PVC CASING NEW JERSEY SAND 10' SECTION | | LOAM AND SANDY LOAM |
| TOTAL WELL DEPTH = 15' NEW JERSEY SAND TOTAL WELL DEPTH = 15' NEW JERSEY SAND | | |
| 7836-03 14.5-15.5' TILL AND LEDGE 2° SCHEDULE 40 PVC CASING NEW JERSEY SAND 10' SECTION | | MEDIUM SAND AND TILL |
| TILL AND LEDGE 2º SCHEDULE 40 PVC CASING NEW JERSEY SAND 10' SECTION | COUPLING | 7836-03 14.5-15.5' |
| 10' NEW JERSEY SAND | | |
| 10' NEW JERSEY SAND | | 7071 1071 0771 451 |
| NEW JERSEY SAND | | TOTAL WELL DEPTH = 15" |
| To' SECTION | | |
| To' SECTION | | |
| To' SECTION | | |
| To' SECTION | 10° :: = :: | |
| 10' SECTION 10 SLOT PVC SCREEN | NEW JERSEY SAND | |
| 10° SECTION 10 SLOT PVC SCREEN | | |
| 10 SLOT PVC SCREEN | 10' SECTION | |
| | 10 SLOT PVC SCREEN | |
| 15' | | |
| | | |
| | · · · · · · · · · · · · · · · · · · · | |

AEGIS, INC.

Environmental Consultants 2138 Silas Deane Highway Rocky Hill, CT 06067-2315 Tel. 860-563-1041

Hole No.: MW-1(R)

Offset:

Well Location Map Leurb) MW-1/ MW-I(R) **Ground Water Observations**

Client: Silver Hill Business Site Location: Front of Pop Bay's no curb in parking l Address: 500 south Brand St Address: 500 south Brand Street Project #:

Type

Casing Sampler Core Bar.

12/6/96 **Date Started:**

12/6/96

MA Date Compl.:

Size ID Boring Foreman: Sima Orilling At: ~/2' After: 0 Insp./Soil Engr.: Aegis, Inc. Hammer Wt. Bit At: After: Hours Hammer Fall

| Sample | Casing | Туре | Blow- | Moisture | Strata | SOIL IDENTIFICATION | GasTech | | Sample | |
|----------------|-------------------|-----------------|--------|------------------------|-----------------|--|------------------|-------------|--------|-------------|
| Depths (ft) | Blows per foot | Of Sample | Counts | Density or Consist. | Change Elev. | | Reading (ppm) | No | Pen | Rec |
| 0-05 | | | | | | 0.5 feet of asphalt | | | | |
| | | ļ | | | | | | | | |
| ٠ ١ | | 4)) : | | | , | | | | | |
| 25-17 | | <u>Cuttings</u> | | wet | | fed brown very fine sand, some clay, little transe sand and sitt. | | | | _ |
| | | | | | | Clay, little transe sand and site. | | - | | |
| | | | | | | Sand appears to be from Screen Prick. Pic frogments evident. | } | | | |
| | | | | | | The state of the s |]] | | | |
| 7-18 | | Cuttings | | wet | | Red brown very fine sand; . | | _ | | _ |
| | | | | | | Red brown very fine sond, Some clay, little sitt. Orilling became more difficult at 17 feet | } | | | |
| | | | | | | | <u> </u> | | | |
| | | | | | | (dun pressure from 300 to 520 psf). i'ary difficult at 18 feet. | ŀ | | | |
| | | | | | | | | | | |
| | | | | | Ì | Bottom of boing 18 feet | | | , | |
| | | | | | - | set 10 feet (10 std) Nic Server | | | | |
| | | | | | | 8 feet pre riser. | - | | | |
| | | | | | | 3.0 bags sand (100 165) 1.5 bag huntarite (50 165) 20 bags concrete (50 165) | - | | | |
| | | | | | 1 | 1,5 bdy San FM R2 (50 785) | | | | |
| | | | | | Ī | Jab y ags concrete (50 /65) | | | | |
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surface to 18' used fix casing then set well at 18' w/ 10 feet x rown.

Sample Type D=dry C=cored W=washed UP=undisturbed piston A=auger V=vane test SS=split spoon UT=undisturbed thinwall

Proportions used Trace 0-10% Little 10-20% Some 20-35% And 35-50%

Cohesionless Density Loose 0-10 M/Dense 10-30 Dense 30-50 V. Dense 50+

Cohesive Consistency Soft 0-4 MStiff 4-8 Stiff 8-15 V. Stiff 15-30 Hard 30+

Summary Boring: 18 feet Coring:

No. of Samples -

| SIMA | \ \ \ | DRIL | LINC | 3 | COM | IPAN | Υ | | FIELD RE | | sco | | PROJEC | | | | R HIL | |
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| MET | | | | AUG | | | | | | | | 500 SOUT | | STF | REET | | | |
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| TOT | | | | | 18' | 46" | <u> </u> | · · · - · · | | | Pg: Strat | | 1 | of: | N/ | <u>1</u> Vell | Т | - |
| D | | Sam No. | <u>0</u> 6" | <u>6"</u> 12" | | | rec | Sample De | escription | | | General D | escription | | 0 |)etail | | D |
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| | | SCR | | | | | = | = 2" P.V.C. | | WELL GROU | | OTECTOR | | GG | 8" FLU | SH | 1 | |
| | | SIZE PIP | | | | | | 10 SLOT 2" P.V.C. | | GROU BACK | | | | | CEMEN | VT | | |
| | | ED S | |) | | | | :#1 MORIE | 300 LBS. | | | LEANER | | | YES | | | |
| BEN | NTO | ONIT | | | | | | | JG75 LBS. | TIME: | DE | CEMBER 6 | , 1996 | | 8:00-11 | :00 | | |
| NO. | TE | S: | | | | | | | | | | | | | | | | |

BORING CONTRACTOR SHEET__/_OF__/ WELL MW-1(R) Sima silling G PROJ 1 1835050A MONITOR WELL CONSTRUCTION DETAIL UNCONSOLIDATED MATERIAL LOG PREPARED BY: CONTR. ___ AEGIS __X TOP OF WELL PROTECTOR EL 263.82 FT. HEIGHT OF CASING FLUSH FT. GROUND SURFACE EL. 263.82 FT. Concrete to 1.5 st BACKFILL WITH NATIVE MATERIAL BACKFILL WITH NATIVE MATERIAL FROM EL. 262.32 FT. TO EL. 2(40.82 FT. FROM LIST IT. 3.00 FT. HEIGHT BENTONITE FROM EL. 260.82 FT. FROM 3:00 FT. 6.00 FT. HEIGHT TO EL. 257.82 FT. TYPE OF CASING <u>PUC</u> CASING BIAMETER 0.17 Ft. FRON 6.00 FT. FROM EL. 257.82 FT. TO EL. 245.82 FT. 18.00 FT. HEIGHT WELL SCREEN FROM B.OO FT. FROM EL. <u>255.87</u> FT. TO EL. <u>245.82</u> FT. _18.00_ FT. HEIGHT TOTAL DEPTH OF WELL 18,00 FT. SCREEN SLOT SIZE O.O.O. INCHES BOTTOM OF BORING EL. 245,82 FT. TOTAL DEPTH OF BORING 18.00 FT.

| 238 Silee Coore Highway Rocky Hill. CT 85067-2315 Inc. Tal 2833 553-841 FAX 2833 529-524 |
|---|
| Environmental Consultants |

| PROJECT NO. 1835050A | 160 1803 | |
|---------------------------------------|-------------------------------|---------|
| SCALE : NOT TO SCALE | MART Well Location: 500 South | MW-1(R) |
| DRAWN BY: J.C.J. DWG NO. G61 MWHELLEM | PINE Brand St. Meriden CT | 1 |
| DAG TAG. DOT THATELETA | THE DIVING ST. PULLIDAY CI | |

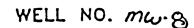
| <u> </u> | . APPENDIX C | |
|--|-----------------------------|---|
| C.E. PRATI & SON Sheep Poeture Rd. Southwick, Ma. (413) 560-5671 | CON-Test | SHEET 4 0F 6 HOLE NO. 4 |
| S.: Warner | PROJECT NAME Deven | MACONCACHAMAN JOB NO. |
| A. Desrosiers | LOCATION | 7836 SCASS Dig Safe No. |
| GROUND WATER OBSERVATIONS | TYPE PVC S/S SIZE 1.0. 140 | Ot. 89120161 DATE START 3/29/88 DATE 3/30/8 SURFACE ELEV. |
| AT FT. AFTER HOURS | HAMMER WE 30" | GROUND WATER ELEV. |
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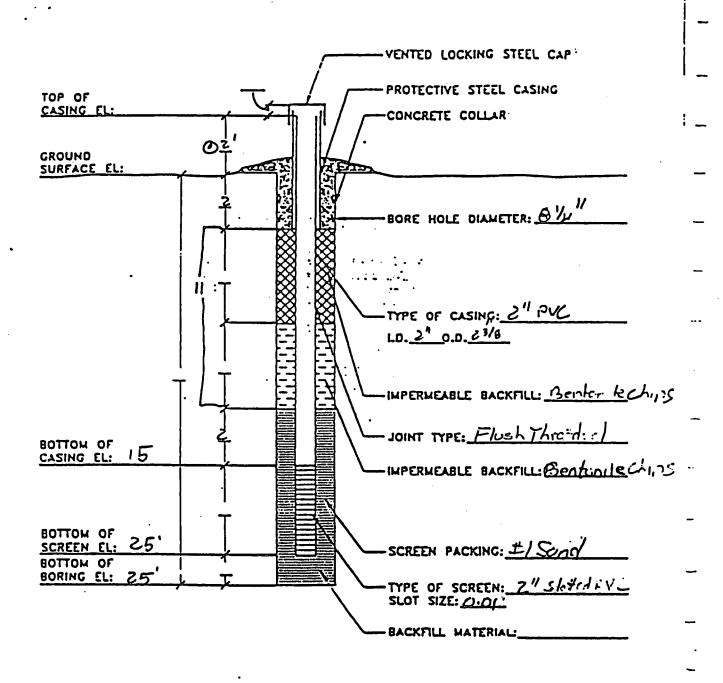
| CON-test VATER AND AIR ENGINEERING | P.O. BOX 591 EAST LONGMEADOV HASSACHUSETTS 01028 (413)525-1198 |
|--|--|
| AS-BUILT WELL DIAGRAM & GEOLD | |
| WELL NO. 4 PROJEC | |
| PRJ. NAME:INTERNATIONAL_SILVER LOCATION | VATER DBSERVATION FT DN 4/4/89 DATE D FROM WELL CASING ATION 74.27 = GROUND ELEVATION 70.67 |
| BURING SIZE 6 DRAWN CASING TYPE PVC DATE CASING ID SCHEDULE 40 APPROV TYPE OF FILTER PACK NEW JERSEY SAND DATE _ | BY ANNE DeSELLIER 4/10/89 ED BY |
| PROTECTIVE STEEL CURB-STOP | 7836-12 4.5-5.5' CLAY 7836-13 9.5-10.5' CLAY - TILL 7836-14 14.5-15.5' CLAY - TILL TOTAL WELL DEPTH = 15' |
| 15' | |

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WELL CONSTRUCTION DETAILS

PROJ. NO92-228 DATE:

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BORING CONTRACTOR SHEET_ 1_ OF 1 Sima Drilling WELL mw-12 (hosiro, CT PROJ 1 030 7050C MONITOR WELL CONSTRUCTION DETAIL LOG PREPARED BY: Dominic Sima UNCONSOLIDATED MATERIAL and Strane Sima AEGIS _/ STANDPIPE with LOCK TOP OF WELL PROTECTOR BL. 96.91 CROUND SURFACE EL. 43.91 20-00 coment colos PACKFAL WITH HATIVE MATERIAL FROM EL. 91.91 FT. 10 EL. 84.91 FT. SCAL SCAL 9,0_n. FROM EL. \$4.91 FT.
10 EL. \$7.91 FT. 2 inch 81.91 PACK 12.0 ... 48.91 m. Stainless Sheel Screen SCREEN SCREEN FROM BL. 78.91 FT. 68.91 FT. TOTAL BEPTH OF WELL 250 FT. SCREEN SLOT SIZE O. / ... MCNES BOTTOM OF BORDO EL. 68.91 250 n

200 Salva Deere Hydrogy Rodry Hall CT 80067-2265 Feb Tel C00 555-824
Environmental Consultants

4.45

| PROJECT NO. (1307/50/_ | aum 500 S. Broad |
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mW-12.

WELL COMPLETION REPORT

CPR-9 REV. 11-82

DEPARTMENT OF CONSUMER PROTECTION WELL DRILLING BOARD

165 CAPITOL AVE. HARTFORD, CONNECTICUT 06106

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| CASMIG - | LENGTH (| | DUMETER (inches) | WEIGHT PER FOO | | THREADED | | T PRINT SH | | SALES TOWN | \Box |
| DETAILS | +=- | 5• | 2ª PVC | Sch 40_ | | | HOURS | □ WES | | THELD IG.P.M. | <u> </u> |
| TEST . | — | ALD | - RANGO | | | i seria. Lu | | | | N/ | • |
| WATEL . | MEASURE | FROM LAND SU | RFACE-SIATIC (Spec | ily food DURIN | AC ARII | D TEST (feeg | | Depth of Cor in feet below | | | • |
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BORING CONTRACTOR SHEET_ I OF ! WELL MW-13 Chosing, (7 PROJ 1 1307150L MONITOR WELL CONSTRUCTION DETAIL LOG PREPARED BY: Duminic and UNCONSOLIDATED MATERIAL AEGIS A 3 Stare Sima Standpipe with lock TOP OF WELL PROTECTOR EL 99.48 ... NEIGHT OF CASING 2.65 FT. GROUND SURFACE EL. 96.90 BACKFUL DITH HATIVE MATERIAL FROM EL. 44.80 FT. 10 EL. 17.80 FT. 9,0 FT. MCIGHT FRON EL. \$7.80 FT. TO EL. \$41.90 FT. 12,0 25,01. HEIGHT CASHIO BIANCTER 2"nch FROM EL. 34.80 FT. TO EL. 71.80 FT. 12,0, Staurless Steel Screek TELEN 15.0 FROM 05.01, NEIGHT WELL SCREEN 81.80 m. 71.80 0. 25.0 TOTAL DEPTH OF WELL SCREEN SLOT SIZE Of _ INCHES 25,0 BOTTOM OF BORNE EL. 71.80 FT.

Rocky Mai. CT 80857-235
Inc. Tel. 203 53-84
FAX 203 529-524
Environmental Consultants

| PROJECT N | 0. 030715(X. 8-20-95 | OLEM! | 500 S. Broadst. |
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WELL COMPLETION REPORT STATE OF CONNECTICUT DEPARTMENT OF CONSUMER PROTECTION WELL DRILLING BOARD 165 CAPITOL AVE. HARTFORD, CONNECTICUT 06106

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APPENDIX D

MARCH 1997 LABORATORY ANALYTICAL REPORTS AND CHAINS-OF-CUSTODY

South Broad

April 1, 1997

Aegis, Inc. 2138 Silas Deane Highway Rocky Hill, CT 06067-2315

Attn: Mr. Mike Zaliznock

Please find attached laboratory report(s) for the samples submitted on March 13, 1997

All pertinent information for this analysis is located on the report. Should it be necessary to contact us regarding billing and or the test results, please have the following information readily available:

LAB No. : 397192 : 0307050L PO/JOB No. INVOICE No.: 64787 ORDER No. : 44921 CUSTOMER No.: 107

Please feel free to contact us if you have any questions.

Very truly yours,

Laboratory Director

AEGIS, INC.

connecticut ₹testing laboratories inc. WATER SOIL AIR

STEPHEN J. FRANCO **Laboratory Director** PHONE **203/634-3731**

165 GRACEY AVENUE ■ MERIDEN, CT ■ 06451

Date Samples Received: 3-13-97

Client Name: Aegis Environmental CTL Lab. No.397192
Report Date: 4-1-97 PO/Job No. 0307050L

RESULTS OF ANALYSIS

| Matrix Type CTL Sample No. Field Id | W 2876 MW-1(R) | W 2877 MW-4 | W 2878 MW-8 | W 2879 MW-12 |
|---|------------------------------------|-----------------------|--|---|
| rielu lu | | | | 1 |
| Arsenic-mg/L | ND<0.05 | ND<0.05 | ND<0.05 | ND<0.05 |
| Silver-mg/L | ND<0.01 | ND<0.01 | "ND<0.01" | _ND<0.01_ |
| Beryllium-mg/L | $\overline{ND} < 0.00\overline{4}$ | _ND<0.004 | _ND<0.004 | ND<0.004 |
| Cadmium-mg/L | ND<0.005 | TND<0.005 | _ND<0.005 | _ND<0.005 |
| Chromium, Total-mg/L | ND<0.05 | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ |
| Copper-mg/L | _ND<0.01_ | _ND<0.01_ | _ND<0.01_ | _ND<0.01_ |
| Lead-mg/L | _ND<0.010 | $ND<0.01\overline{0}$ | $\begin{bmatrix} ND<0.010 \end{bmatrix}$ | $[ND<0.01\overline{0}]$ |
| Mercury-mg/L | _ND<0.002 | _ND<0.002 | _ND<0.002 | _ND<0.002 |
| Nickel-mg/L | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ |
| Selenium-mg/L | _ND<0.01_ | _ND<0.01_ | _ND<0.01_ | _ND<0.01_ |
| Antimony-mg/L | _ND<0.00g | _ND<0.006 | _ND<0.006 | $\left \frac{1}{2} ND < 0.00 \overline{6} \right $ |
| Thallium-mg/L | _ND<0.002 | _ND<0.002 | _ND<0.002 | ND<0.002 |
| Zinc-mg/L | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ |
| Barium-mg/L | _ND<0.5 | _ND<0.5 | _ND<0.5 | _ND<0.5 |
| Tin-mg/L | _ND<0.5 | _ND<0.5 | _ND<0.5 | _ND<0.5 |
| Chromium, Hexavalent-mg/L | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ |
| Cyanide, Amenable-mg/L | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ |
| Cyanide, Total-mg/L | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ | _ND<0.05_ |
| pH | 6.0_ | 6.6_ | 6.4 | 6.7 |
| Oil & Grease(TPH)-mg/L | ND<5 | _ND<5 | _ND<5 | <u>_ND<</u> 5 |
| TOC-mg/L | 1.4 | 2.6 | 1.4 | 1.8_ |
| Fecal Coliform/100ml | _ND<10 | _ND<10 | _ND<10 | ND<10 |

Matrix Types : W = Water/Aqueous

S = Soil/Solid

O = Oil/Hydrocarbons

CONNECTICUT TESTING LABORATORIES, INC. 165 Gracey Avenue / Meriden, CT 06451-2268 (203)-634-3731

Connecticut Certification No. PH-0547

Date Samples Received: 3-13-97

| Client Name: Aegis Environmental | CTL Lab. No.397192 |
|----------------------------------|---------------------|
| Report Date: 4-1-97 | PO/Job No. 0307050L |
| | |

RESULTS OF ANALYSIS

| Matrix Type | W | | | |
|---------------------------|----------------------------------|---------|------|---|
| CTL Sample No. | 2880 | | | |
| Field Id | _ MW-13 | , | | |
| | | | | |
| Arsenic-mg/L | _ND<0.05_ | | | |
| Silver-mg/L | _ND<0.01_ | <u></u> | | |
| Beryllium-mg/L | $\overline{ND}<0.00\overline{4}$ | | | |
| Cadmium-mg/L | ND<0.005 | | | |
| Chromium, Total-mg/L | _ND<0.05 | | | |
| Copper-mg/L | _ND<0.01_ | | | |
| Lead-mg/L | ND<0.010 | | | |
| Mercury-mg/L | ND<0.002 | | | |
| Nickel-mg/L | _ND<0.05 | | | |
| Selenium-mg/L | ND<0.01 | | | |
| Antimony-mg/L | TND<0.006 | | | |
| Thallium-mg/L | _ND<0.002 | | | |
| Zinc-mg/L | ีกD<0.05 | | | |
| Barium-mg/L | ND<0.5 | | | |
| Tin-mg/L | _ND<0.5 | | | |
| Chromium, Hexavalent-mg/L | ND<0.05 | | | |
| Cyanide, Amenable-mg/L | _ND<0.05_ | | | |
| Cyanide, Total-mg/L | 0.09 | | · | |
| pH | 6.2 | | | į |
| Oil & Grease(TPH)-mg/L | ND<5 | | | |
| TOC-mg/L | 1.6 | | | |
| Fecal Coliform/100ml | ND<10 | | | |

CONNECTICUT TESTING LABORATORIES, INC. 165 Gracey Avenue / Meriden, CT 06451-2268 (203)-634-3731 Connecticut Certification No. PH-0547

| CI | HAIN OF CUST | | | | | | | | | | 10 | NECTICUT 65 Gracey Fel # 203-6 | Ave | nue | / M | erid | en, | CT | 064 | 151 | IC. | |
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| Cli | ent Name : <u> <i>500</i> </u> nd Report To : <u> </u> | <u>5. 1</u> | 15 8-4 | 10 | >T. | 472 | Rill | ومهري | <u> </u> | | | | | T., | . ہر . | . پس | d | , | | | | |
| Se | nd Bill To : | FIK. | <u>5/5</u> | <u> </u> | 4. | PO | .# | 26 | 2 0 | 50/ | Samples Colle | ected By (Prii | 11) | JEF | · /c· | <u>; </u> | KIN | | | - | | • |
| | QUITE: SFAAEA | | | | | | л | | 70 | , , , , , , | Signature : | 4114 | .w | $\stackrel{\smile}{=}$ | | | | | | | | |
| ` <u>`</u> | STANDARD (10 W | orkin | n Da | vel | | | | | | | LAB USE OF | NLY | | | | | | | | | | |
| [| PRIORITY (See F | ee S | ched | ule) | | | | | | | | 9719 | \bigcirc | | K | | | | | 10 | V | |
| ٤ | ALL Analysis (| □ M | etals | Only | <i>,</i> [|) Or | gani | cs O | niy | | | 9-11-7 | ~ | • | | | <u>.</u> L | U | | " | | |
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| 4 | MW-8 | | | | | • | | | | 1525 | " | " | 1 | 1 | | +- | " | | /- | 02 | | P |
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| | ALS, DISS. WTR-8 | <u> </u> | | | <u> </u> | | _ | <u> </u> | | ļ | pH / SPEC C | | × | X | × | ¥. | X | | \square | \vdash | | |
| | ALS, TOTAL WTR-8 | <u> </u> | | | <u> </u> | <u> </u> | | - | \vdash | ļ | COPPER / N | IICKEL | - | | | | | | $\vdash\vdash$ | $\vdash \vdash \vdash$ | | |
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| | P METALS S/W | | <u> </u> | | | | | | ⊢ | } | CN - TOT. / C | | <u> </u> | | | | - | | | \vdash | | |
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| | SCAN | | | | | _ | | ├ | 1 | 1 | BARIUM | | X | ين | ــــــــــــــــــــــــــــــــــــــ | × | x | | | | | |
| | SCAN | | | \vdash | | | | | ╁ | 1 | TIN | | 1 | N | ر لا | 18 | <u>ک</u> | | | П | | |
| $\overline{}$ | SCAN | ╁ | | | | t | 1 | 1 | | 1 | T. CYANII | 0E | X | X | X | يزا | X | | | | | |
| 608 | 8080 FULL SCAN | İ | | | | | | | | 1 | A. CYAN | | X | X | X | メ | À | | | П | | |
| 608 | 8080 PCB ONLY | | | | | Ī | | | | 1 | Co | | X | × | × | X | X | | | | | |
| 8260 | SCAN | | | | | | | | |] ` | | | | | | | | | | | | |
| 8100 | (PAH) SCAN | | | | | | | П | |] | | | | | | | | | | | | |
| TOC | | X | X | X | × | X | | | |] | | | | | | | | | | | | |
| TOX | | <u> </u> | I | | | | | | |] · | | | | | | | | | | | | |
| Pb | % (PAINT CHIPS) | | | | | | | | |] | | | | $oxed{oxed}$ | <u> </u> | | | | <u> </u> | \sqcup | | |
| WA. | TER POTABILITY | | | | | | | | |] | | | <u> </u> | <u> </u> | | | | | 匚 | igspace | | |
| EDE | SCAN | | | | | | | $oxedsymbol{ox{oxed}}}}}}}}$ | $oxedsymbol{oxed}$ | 1 | | · | <u> </u> | $oxed{oxed}$ | | <u> </u> | | | <u> </u> | 1 | | |
| COL | IFORM BACTERIA | X | X | X | X | X | _ | | سَل | FECAL | <u> </u> | | <u> </u> | <u> </u> | <u> </u> | | <u> </u> | <u> </u> | <u> </u> | <u> </u> | | |
| REL | INQ BY: | | | | | | Date | 3/ | 13/ | 97 | RELINQ BY: | | | | | | | Date | | | | |
| 4, | A Sulla | | | | | | Time | 16 | ,/3 | | | | | | | | | Time | | | | |
| REC | D BY: | . ^ | | / | | | Date | 3 | 13/ | 37 | REC'D BY: | | | | | | | Date | | | | |
| 凶 | Jauren II | \mathcal{N} | lal | ion | | | Time | 4 | :18 | | | | | | | | | Time | | | | |
| | se fill in the Field ID's exactly te refers to the number of tes | | | | | | | | | | | | | | iless (| otherw | dse in: | structe | d. Th | ie num | ber after | the |
| | , | | | | ~ Pr | _, 4111 61 | | | | | · · · · · · · · · · · · · · · · · · · | | | ~~· | | | | | | | | |

MATRICES W = WATER S = SOIL O = OIL / HYDROCARBON

PRESERVATIONS A = ACID B = BASE C = COOL N = NONE

AEGIS, INC.

Environmental Laboratory Services
2138 Silas Deane Highway * Rocky Hill * CT * Tel: (860)563-1041 * Fax: (860)529-5124

Client: South Broad Associates

Project No: 0307050L

Date of Report: April 7, 1997

EPA METHOD 8021

Page 1 of 2

| Matrix Type: | | WATER | WATER | WATER | WATER | WATER | WATER |
|-----------------------------|-------------|----------|----------|----------|----------|----------|----------|
| Date Collected: | | 03/13/97 | 03/13/97 | 03/13/97 | 03/13/97 | 03/13/97 | 03/13/97 |
| Date Analyzed: | | 03/27/97 | 03/27/97 | 03/27/97 | 03/27/97 | 03/27/97 | 03/27/97 |
| Field #: | | MW-1 (R) | MW-4 | MW-8 | MW-12 | MW-13 | T.Blank |
| Lab #: | | 47-600 | 47-598 | 47-596 | 47-599 | 47-597 | 47-595 |
| | MDL | | | 47-555 | 47-000 | <u> </u> | |
| Dichlorodifluoromethane | 10 | BDL | BDL | BDL | BDL | BDL. | BDL |
| Chloromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Vinyl Chloride | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromomethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| Trichlorofluoromethane | 10 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Methylene Chloride | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| trans-1,2-Dichloroethene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1-Dichloroethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2,2-Dichloropropane | 1 | BDL | BDL | BDL | BOL | BDL | BDL |
| cis,-1,2-Dichloroethene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chloroform | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromochloromethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,1-Trichloroethane | 1 | BDL | BDL. | BDL | BDL | BDL | BDL |
| 1,1-Dichloropropene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Carbon Tetrachloride | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dichloroethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Trichloroethene | 1 | BDL | BDL | 9.0 | BDL | BDL | BDL |
| 1,2-Dichloropropane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromodichloromethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibromomethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2-Trichloroethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Tetrachloroethene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,3-Dichloropropane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Dibromochloromethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dibromoethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Chlorobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,1,2-Tetrachloroethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromoform | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,1,2,2-Tetrachloroethane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,3-Trichloropropane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 2-Chlorotoluene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 4-Chlorotoluene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,3-Dichlorobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,4-Dichlorobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL. |
| 1,2-Dichlorobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2-Dibromo-3-Chloropropane | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,4-Trichlorobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,3-Trichlorobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |

MDL = Minimum Detectable Level • BDL = Below Detection Level • UNITS = μg/L

Michael D. Zaliznock, Laboratory Director

AEGIS, INC.

Environmental Laboratory Services
2138 Silas Deane Highway * Rocky Hill * CT * Tel: (860)563-1041 * Fax: (860)529-5124

Client: South Broad Associates Date of Report: April 7, 1997 Project No: 0307050L

EPA METHOD 8021

Page 2 of 2

| Matrix Type: | | WATER | WATER | WATER | WATER | WATER | WATER |
|------------------------|-----|----------|----------|----------|----------|----------|----------|
| Date Collected: | | 03/13/97 | 03/13/97 | 03/13/97 | 03/13/97 | 03/13/97 | 03/13/97 |
| Date Analyzed: | | 03/27/97 | 03/27/97 | 03/27/97 | 03/27/97 | 03/27/97 | 03/27/97 |
| Field #: | | MW-1 (R) | MW-4 | MW-8 | MW-12 | MW-13 | T.Blank |
| Lab#: | | 47-600 | 47-598 | 47-596 | 47-599 | 47-597 | 47-595 |
| | MDL | | | | | | |
| Benzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Toluene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Ethylbenzene | _1 | BDL | BDL | BDL | BDL | BDL | BDL |
| m-Xylene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| p-Xylene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| o-Xylene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Styrene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Isopropylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| n-Propylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Bromobenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,3,5-Trimethylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| tert-Butylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| 1,2,4-Trimethylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| sec-Butylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| p-Isopropyltoluene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| n-Butylbenzene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Hexachlorobutadiene | 1 | BDL | BDL | BDL | BDL | BDL | BDL |
| Naphthalene | 10 | BDL | BDL | BDL | BDL | BDL | BDL |

MDL = Minimum Detectable Level • BDL = Below Detection Level • UNITS = µg/L

Connecticut Certification No. PH-0647

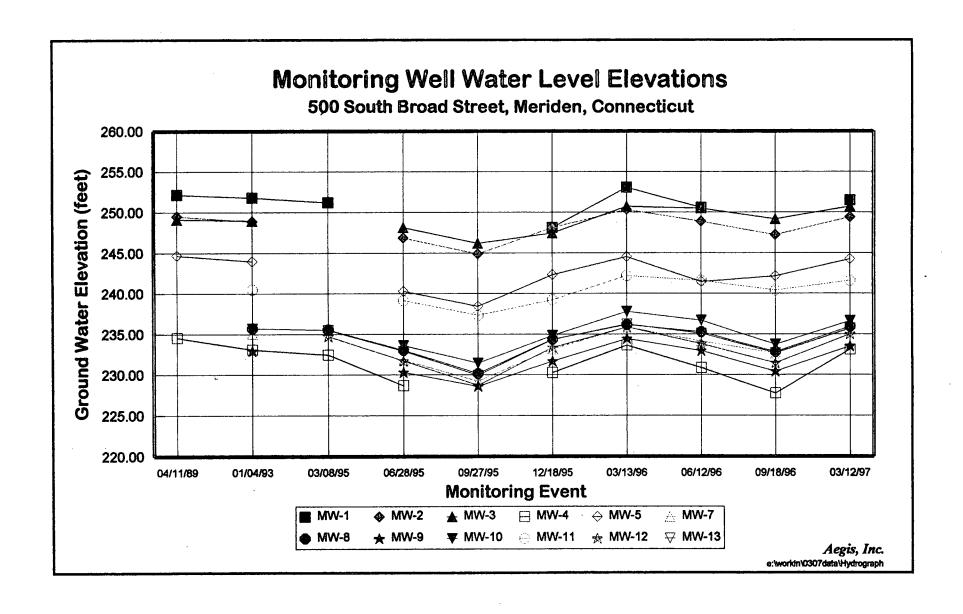
CHAIN OF CUSTODY RECORD

Aegis, Inc. - Laboratory Services 2138 Silas Deane Highway, Rocky Hill, Connecticut 06067 Tel. (203) 563-1041 * Fax (203) 529-5124

| | E: Compliand | | TUR-IN | <u></u> | | | | | | | | oninea | |
|----------------------|----------------------|------------------|----------|---------|-----------------|------------------|-----------------|-------------|----------|------------|----------|------------------------|--|
| COMPANY: ADDRESS: | SOUTH BR. 500 S. BR | DAG STREE | 1 ASS | 6C/A | T' | | | | AN | ALYSE | | | FILE |
| SAMPLED BY: | JEFF JEN JM Just | (algnotura) | | | | | | 120 | | | | | |
| | | (algnatura) | | | | | . | a | | İ | | | |
| NO: DATE THE | SAMPLE LOCATION | CONT SIZE G/P | GRAB | COMP | NO. OF CONT. | SAMPLE MATRIX | PRESERVATIVE | | + | - | ╁ | | COMMENTS |
| | MW-1(R) | 40ni V | | | 2 | W | Hol/c | X | \dashv | - | | | |
| 7/2/67 | 160-160 | 10 | ı, | | (1 | ч | u | | + | + | - | | |
| 3/13/7/ | MW-4 | | | | | .** | | X | + | +- | - | | |
| 1055 | /** -{ | il | 11 | | 1' | μ. | u | | | 1 | \vdash | H | |
| 3/13/17 | MW-8 | -" | '' | | | <u>'</u> | | X | + | + | | | |
| 73 45 | | d | 11 | | 4 | 11 | 11 | | - | + | | | |
| 3/13/57 | MW-12 | | | | | | | X | | + | ╁ | H | ······································ |
| 1250 | MW-13 TRIPBLANK | - 1 | | | u | 11 | и | | + | + | - | | |
| 3/13/57 | M61-13 | | 6/ | | ** | | | X | | ╁ | ╂ | \vdash | |
| 14/0 | 7 (10 | | | | - 11 | 11 | - U | | + | + | - | | · · · · · · · · · · · · · · · · · · · |
| 3/13/57 | SOLO RIANK | 1 | " | | • | | , | X | | + | - | $\left \cdot \right $ | |
| 0/38 | TRIP BONDE | | | | | | | | \perp | \dotplus | ├ | $\left \cdot \right $ | |
| | | * | | | | | | $ \cdot $ | | - | <u> </u> | | |
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| | | | | | | | | | | | | | |
| Relinguished B | 3/17/57 | Received E | ly By | | ite/Time | | Relinguished By | | 3/1 | ato/Tir | 176 | ? (| Received By Lab. Received By Lab. |
| Methy | od of Shipment | | | | P 255 (1.05) | 5 | REMARKS | | | .488387. | | | |

APPENDIX E

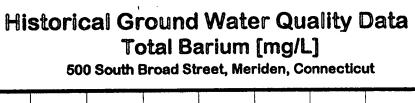
HISTORICAL GROUND WATER HYDROGRAPHS

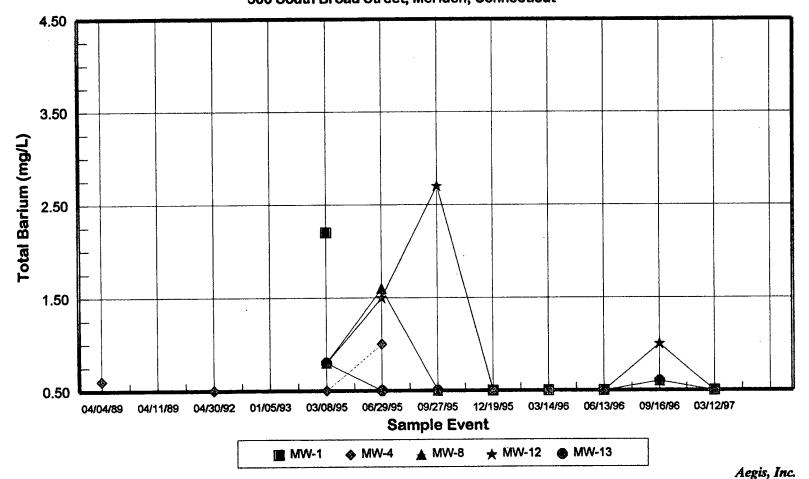


APPENDIX F

HISTORICAL GROUND WATER QUALITY DATA GRAPHS

pΗ 500 South Broad Street, Meriden, Connecticut 12.0 10.0 pH range (laboratory) 8.0 6.0 4.0 2.0 06/29/95 09/27/95 12/19/95 03/14/96 06/13/96 09/16/96 03/12/97 03/08/95 01/05/93 04/04/89 04/11/89 04/30/92 Sample Event Aegis, Inc. ♦ MW-4 **▲** MW-8 **■ MW-1** e:\workin\0307data\historical GWQ



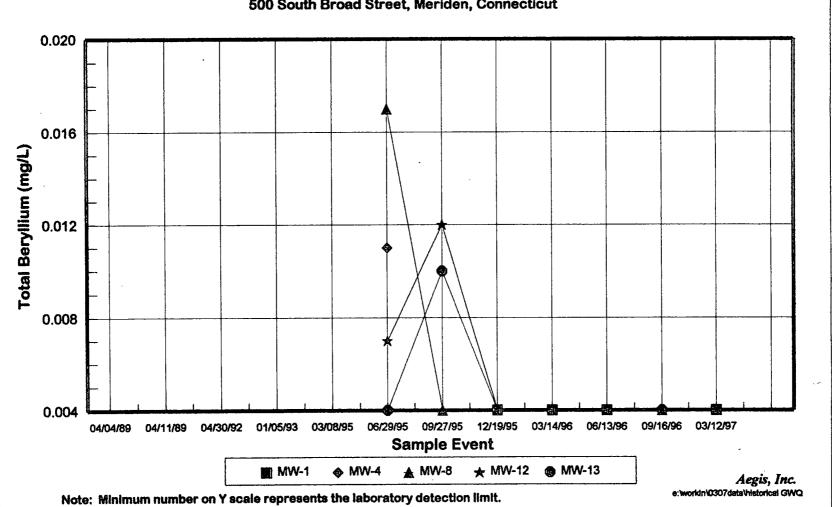


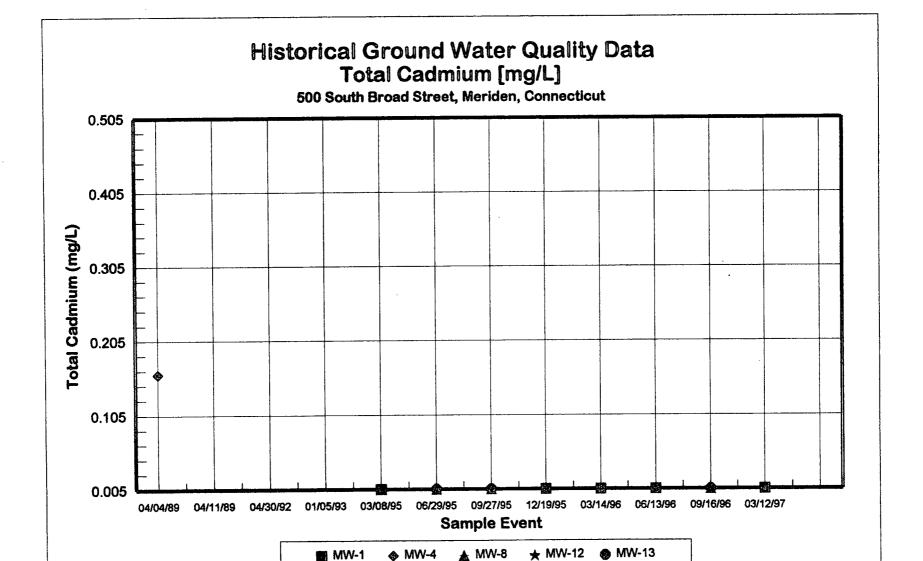
Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\workin\0307data\historical GWQ

Historical Ground Water Quality Data Total Beryllium [mg/L]

500 South Broad Street, Meriden, Connecticut



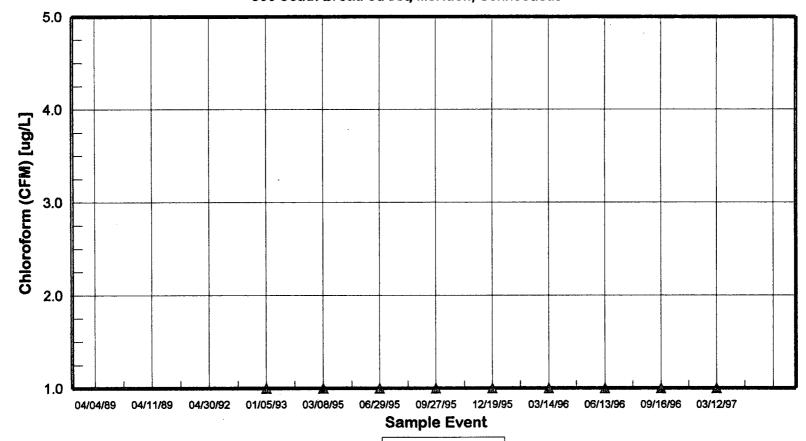


Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\workin\0307data\historical GWQ

Historical Ground Water Quality Data Chloroform (CFM) [ug/L]

500 South Broad Street, Meriden, Connecticut

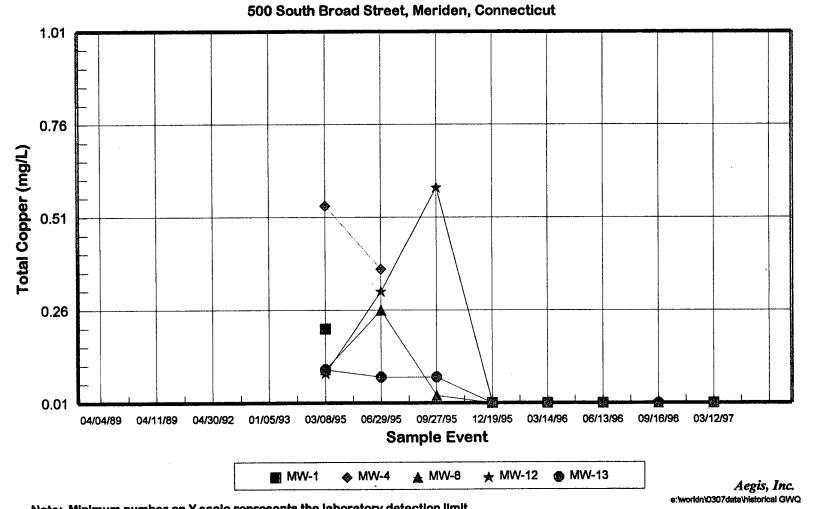


▲ MW-8

Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\worldn\0307data\historical GWQ

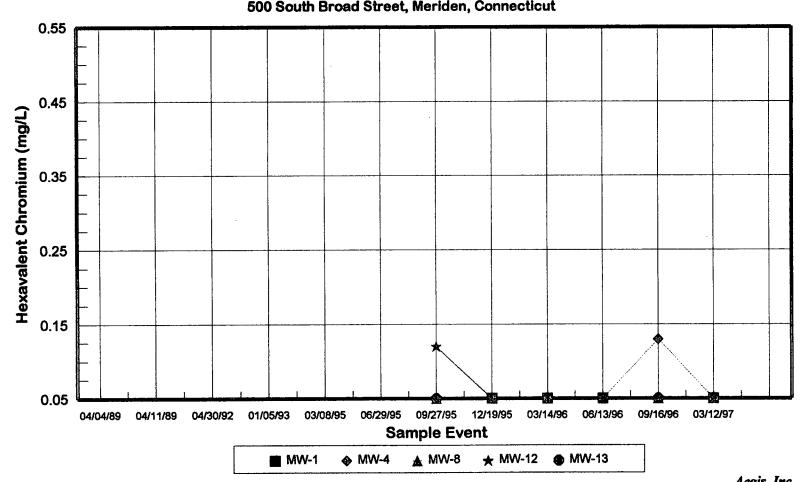




Note: Minimum number on Y scale represents the laboratory detection limit.

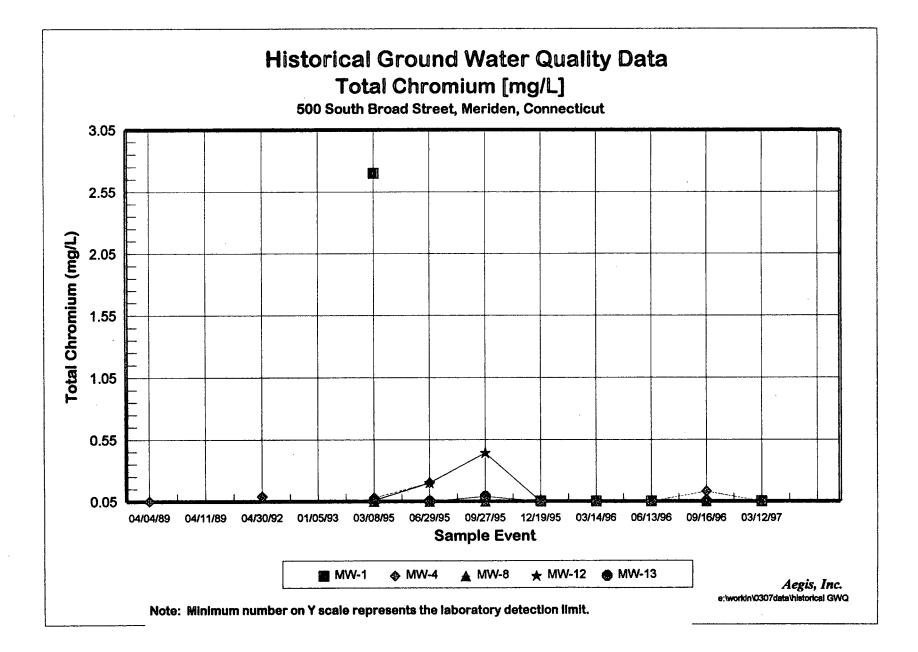


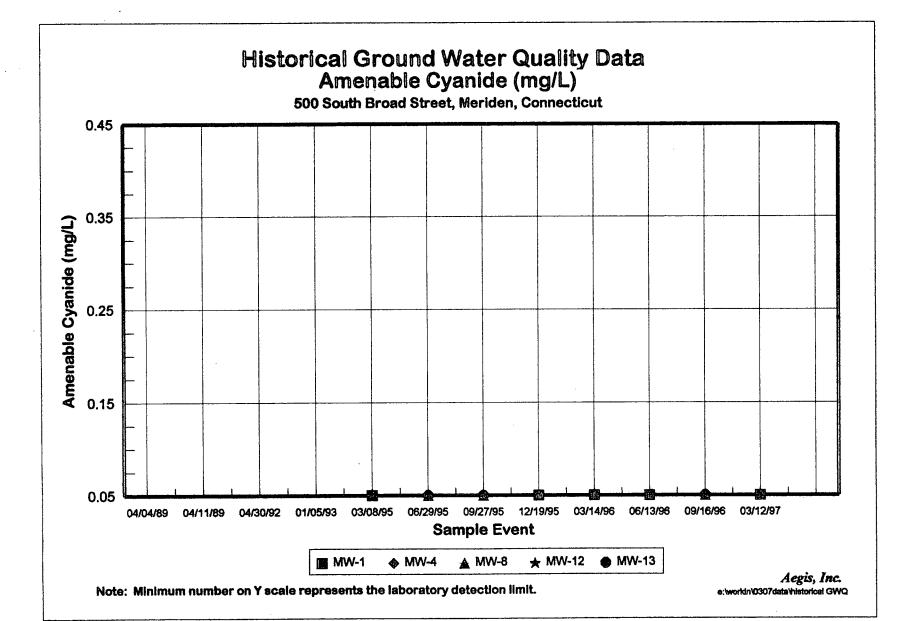
500 South Broad Street, Meriden, Connecticut

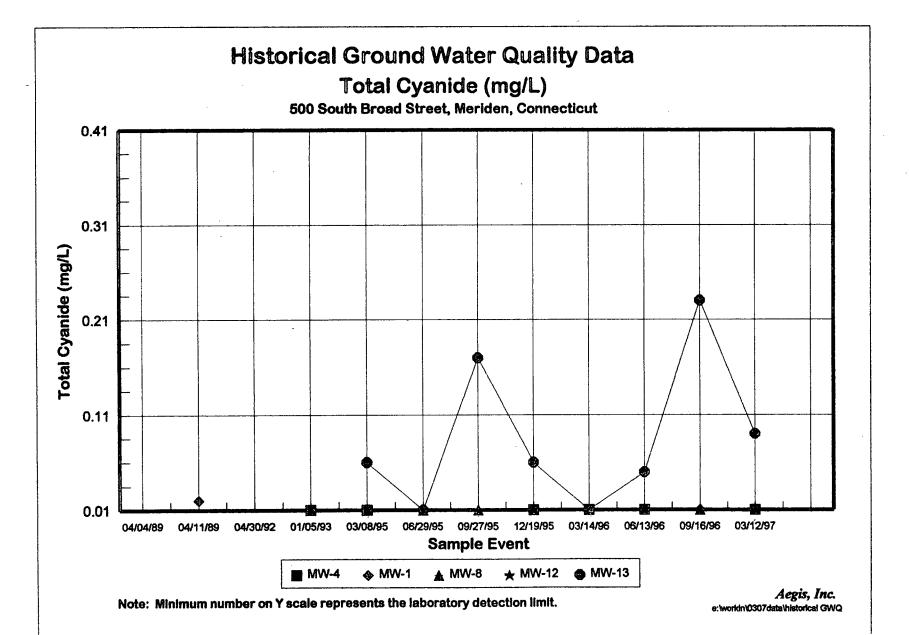


Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\worldn\0307data\historical GWQ

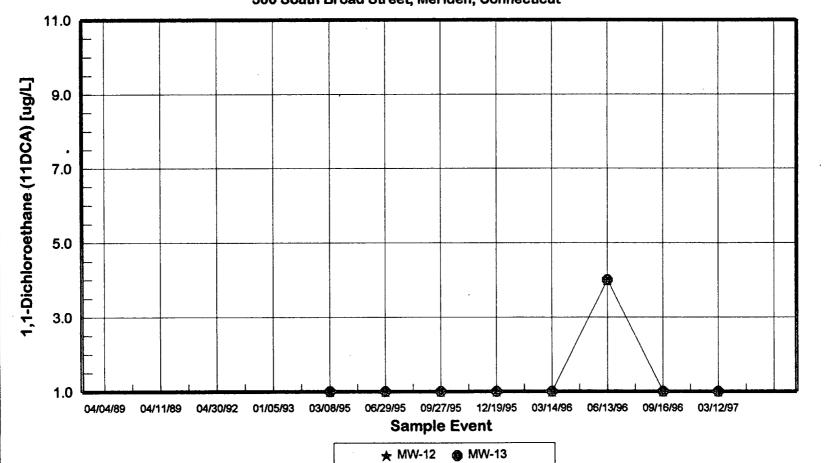






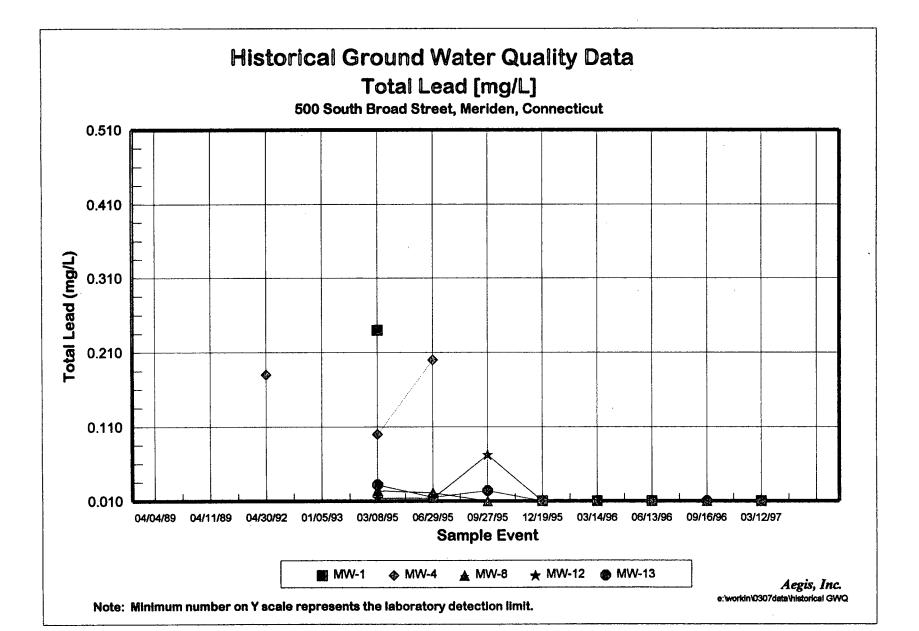


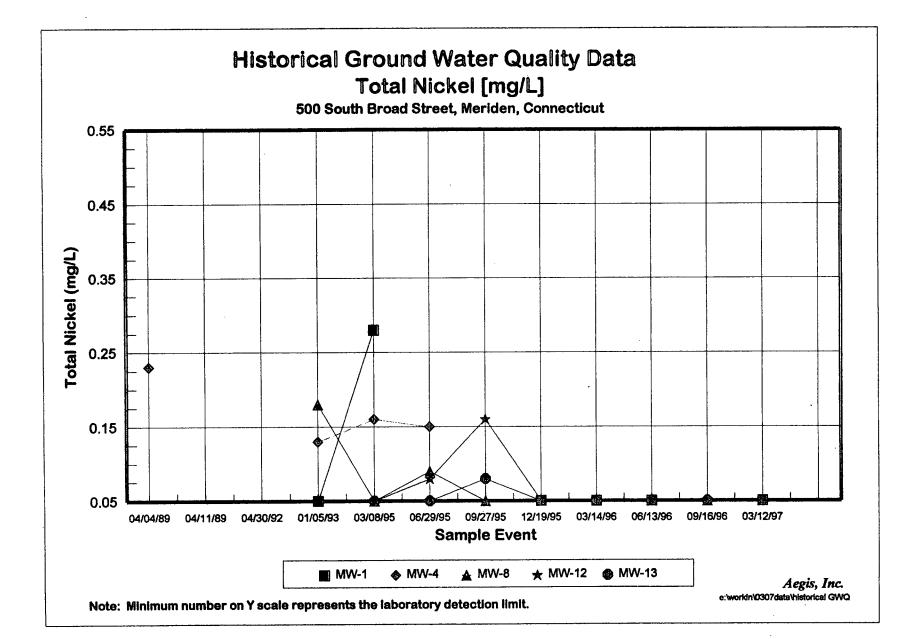
500 South Broad Street, Meriden, Connecticut

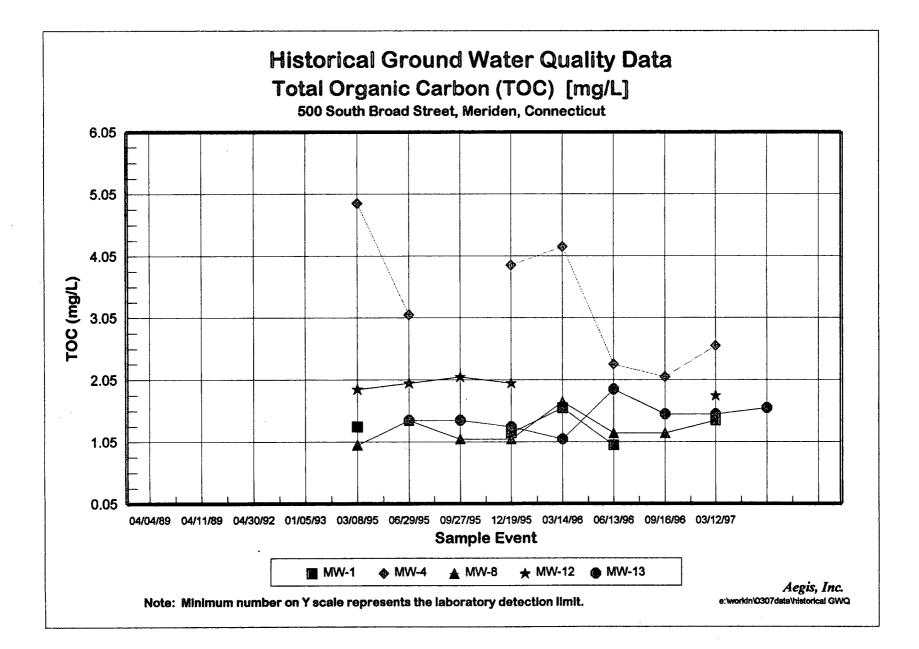


Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\workin\0307data\historical GWQ

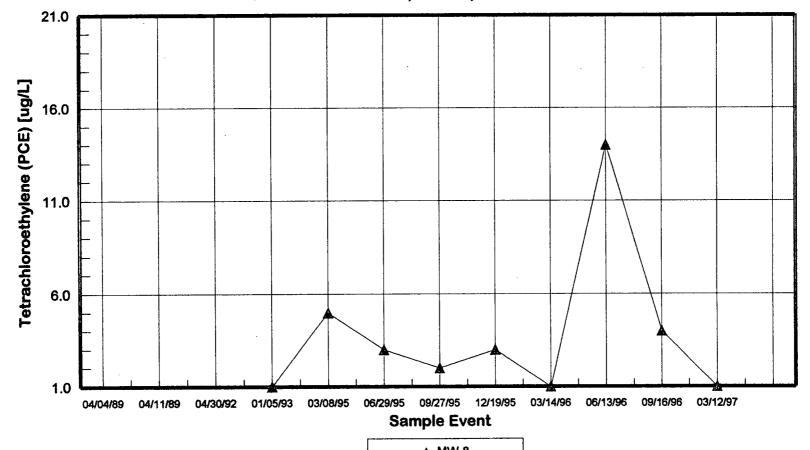






Historical Ground Water Quality Data Tetrachloroethylene (PCE) [ug/L]

500 South Broad Street, Meriden, Connecticut



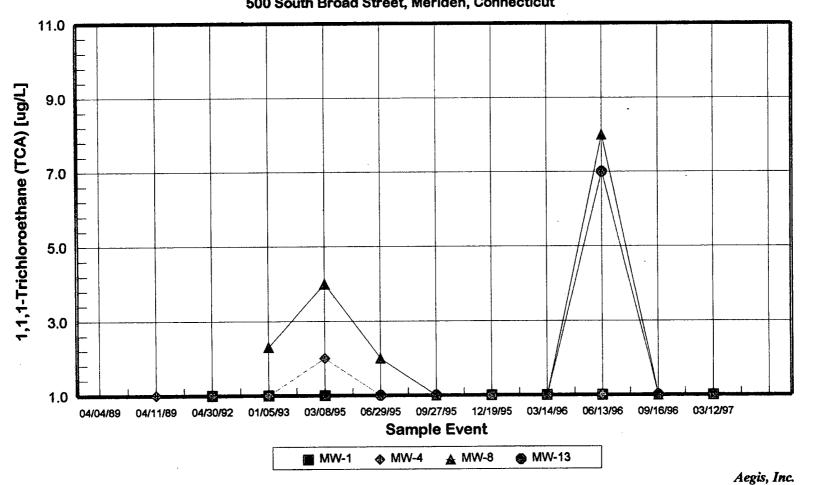
★ MW-8

Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc.
e:\workin\0307data\historical GWQ

Historical Ground Water Quality Data 1,1,1-Trichloroethane (TCA) [ug/L]

500 South Broad Street, Meriden, Connecticut

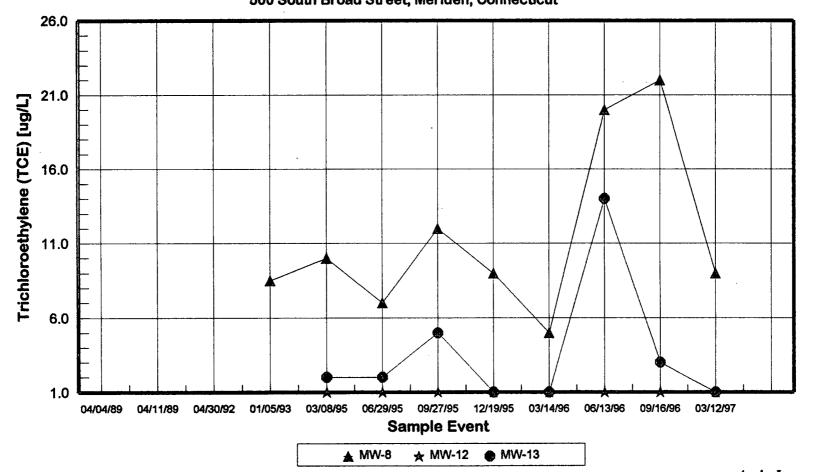


Note: Minimum number on Y scale represents the laboratory detection limit.

e: worldn\0307data\historical GWQ

Historical Ground Water Quality Data Trichloroethylene (TCE) [ug/L]

500 South Broad Street, Meriden, Connecticut

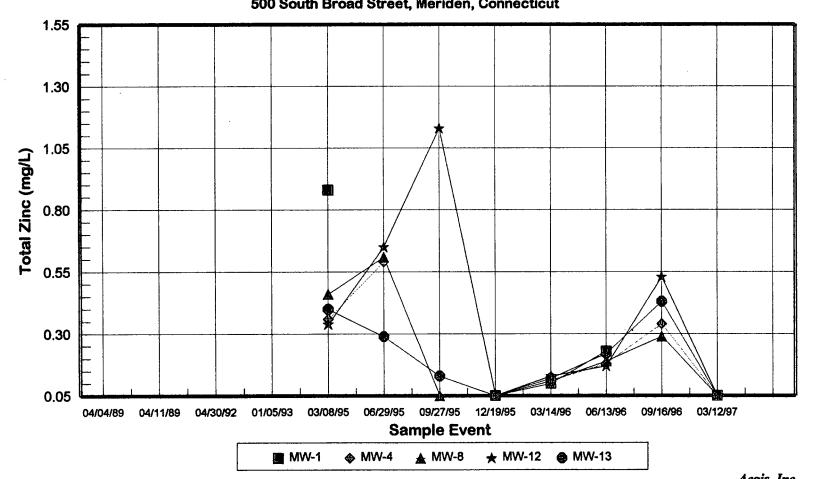


Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\workin\0307data\historical GWQ

Historical Ground Water Quality Data Total Zinc [mg/L]

500 South Broad Street, Meriden, Connecticut



Note: Minimum number on Y scale represents the laboratory detection limit.

Aegis, Inc. e:\workin\0307data\historical GWQ

APPENDIX G

HISTORICAL GROUND WATER FIELD MEASUREMENT DATA GRAPHS

